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The CHEMIST AND DRUGGIST

for RETAILER - WHOLESALER - MANUFACTURER

blished 1859 28 Essex Street, Strand, London, W.C.2 *Registered as a Newspaper*

3481 CXLVI OCTOBER 26, 1946 *Annual Subscription (with Diary) 25/-. Single copies 9d.*

Lilly TRADE MARK

'MERTHIOLATE'

TRADE MARK BRAND

SODIUM ETHYL MERCURI THIOSALICYLATE

'Merthiolate' is noted for its general applicability in clinical antiseptics. The germicidal action of 'Merthiolate' is prompt and its antiseptic effect is well sustained. Tincture 'Merthiolate' is intended for presurgical disinfection of the skin. Solution 'Merthiolate' is stainless, non-irritating and is intended for general clinical use. 'Merthiolate' is also supplied in ointment, cream, jelly and suppository forms.

P.A.T.A.

ELI LILLY & Co. LTD.
BASINGSTOKE
HANTS

128 Fluid Ounces (3.63 Litres)

SOLUTION No. 45
'MERTHIOLATE'
Sodium Ethyl Mercuri Thiosalicylate
1 in 1000—STAINLESS

Contains: 'Merthiolate' = Sodium Ethyl Mercuri Thiosalicylate 0.1% w/v; Monoethanolamine 0.1% w/v.
A stable, stainless, organic mercury compound solution of high germicidal value, particularly in serum and other protein media.
Do not use in combination with or following the application of acids, the salts of heavy metals, or iodine.
Use only as directed by the physician.

Lilly TRADE MARK POISON NOT TO BE TAKEN

ELI LILLY AND COMPANY LIMITED, BASINGSTOKE, ENG.

128 FLUID OUNCES (3·63 LITRES)
POISON—FOR EXTERNAL USE ONLY

TINCTURE No. 99
'MERTHIOLATE'
Sodium Ethyl Mercuri Thiosalicylate
1 in 1000

ALCOHOL 50 PERCENT
Coloured Alcohol-Acetone-Aqueous Solution
Contains 'Merthiolate' = Sodium Ethyl Mercuri Thiosalicylate 0·1% w/v; Alcohol 50% v/v; Acetone 10% v/v; Monoethanolamine 0·1% w/v; Water Q.S. With sufficient inert colouring material to define the area of application.
A superior germicide for pre-surgical preparation of the skin and first aid antiseptic.
To be used as directed by the physician.

Lilly TRADE MARK

ELI LILLY AND COMPANY LIMITED, BASINGSTOKE, ENG.

Five Pounds (2.26 kg.) No. 59

OINTMENT
'MERTHIOLATE' 1 : 2000
Sodium Ethyl Mercuri Thiosalicylate

Contains 'Merthiolate' = Sodium Ethyl Mercuri Thiosalicylate 1 in 2,000.
An organic mercury compound of high germicidal value, in a paraffin base.
POISON
To be used as directed by the physician.

Lilly

ELI LILLY AND COMPANY LIMITED, BASINGSTOKE, ENG.

One Ounce POISON (28 gm.)

'MERTHIOLATE'—CREAM 1 : 1000
Sodium Ethyl Mercuri Thiosalicylate

Lilly

LLY & CO. LTD. BASINGSTOKE, ENG.

ONE OUNCE
'MERTHIOLATE'—JELLY 1 : 1000
Sodium Ethyl Mercuri Thiosalicylate

Lilly POISON

ELI LILLY & CO. LTD. BASINGSTOKE, ENG.

One Dram POISON No. 31
OPHTHALMIC OINTMENT
'MERTHIOLATE'— 1 : 5000
ELI LILLY & CO. LTD., BASINGSTOKE, ENG.

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being advertised again this winter

Wright's

COAL TAR INHALER AND VAPORIZER

for quick relief from

COLDS
INFLUENZA
BRONCHITIS
WHOOPING COUGH
CATARRH ETC.

Making a re-appearance in the National Press this Autumn and Winter, publicity for Wright's Coal Tar Inhaler and Vaporizer will help to develop valuable business.

Wright's Coal Tar Inhaler and Vaporizer — eminently suitable for the relief of colds, catarrh, and like congestive conditions —should be well and prominently displayed. It offers good sales returns and terms.

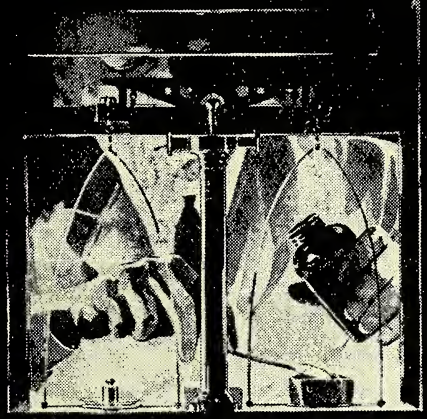
Complete with full size bottle of Vaporizer - - - Retail 6/-

Vaporizing Liquid Refills - - Retail 1/2½

Spare absorbent blocks - Retail 7½d. each

WRIGHT, LAYMAN & UMNEY LTD. SOUTHWARK LONDON S.E.

WHEN YOUR REPUTATION HANGS IN THE BALANCE



When you think of the chemicals you use in preparing your finished product in terms of hundredweights and gallons, one single milligram, more or less, in the compound or synthesis doesn't seem to count very much. But it could! It could ensure the continued reliability of your product. Then again, it could mean a fundamental deficiency in your product which, in turn, would reduce its efficiency — and your reputation.

That's quite a responsibility for any man to carry — but one that Monsanto, in preparing their products, readily accept without a qualm. But then, Monsanto have good reason to accept it. Every batch of every Monsanto chemical is *double*-checked by our highly skilled control chemists before a single pint or a single pound is delivered to your works.

But there's even more to it than that: most Monsanto chemicals are prepared to much closer specifications than those required by B.P. or B.S.I. So, with a high standard to start with, and with that high standard as an integral part of your formulæ, you will readily appreciate the important part that *double*-check-controlled Monsanto chemicals play in helping you to maintain your reputation.

MONSANTO CHEMICALS LIMITED
Victoria Station House, London, S.W.1
Phone: Victoria 2255. Grams: Monsanto, Sowest, London

Aspirin
Phenol
Phenacetin
Methyl salicylate
Sodium salicylate
Benzoic acid
Sodium benzoate
Lysol
and many others

MONSANTO CHEMICALS

SERVING INDUSTRY WHICH SERVES MANKIND

PREPARATIONS FOR THE WINTER

Please lay in a stock of the following preparations in readiness for winter needs :—

FOR SORE THROATS

Euflavine in palatable tablet form. Dissolved in the saliva it has a specifically bactericidal action—and it does not upset the stomach.

'PANFLAVIN'

TRADE MARK BRAND

THROAT TABLETS

P.A.T.A. TERMS

Box of 30 (1/- *net*) 1/5+2*d. p.t.*
,, ,, 100 (3/- *net*) 4/3+6*d. p.t.*
13 *to the dozen in return for display. Show material available.*

EXPECTORANT

An agreeably flavoured solution of calcium cresol sulphonate, to relieve cough and liquify thick sputum.

'CRESIVAL'

TRADE MARK BRAND

CALCIUM CRESOL SULPHONATE

TERMS

Bottle of 4 *oz* (2/7½ *net*) 3/6 + 5*d. p.t.*

NUTRIENT TONIC

A tonic containing iron, haemoglobin, vitamin B_1 and nicotinamide. Suitable for children and adults.

'BIOFEROL'

TRADE MARK BRAND

NUTRIENT TONIC

P.A.T.A. TERMS

Bottle of 8 *oz* (3/- *net*) 3/9 + 6*d. p.t.*
13 *to the dozen in return for display. Show material available.*

ASPIRIN—BAYER BRAND

Bayer brand Aspirin is well known to you and your customers. A distinguished new showcard can be supplied upon request.

P.A.T.A. TERMS

Bottle of 25 *x* 5 *gr.* (8*d. net*) - - - - 1/- + 1*d. p.t.*
,, ,, 100 *x* 5 *gr.* (2/4 *net*) - - - - 3/6 + 5*d. p.t.*
Bonus of 3 *packings of* 25 *x* 5 *gr. on mixed orders for Bayer Aspirin to a total net value of* 24/-.
Bonus of 12 *packings of* 25 *x* 5 *gr. on mixed orders for Bayer Aspirin to a total net value of* 48/-.

BAYER PRODUCTS LTD • AFRICA HOUSE • KINGSWAY • LONDON • WC2

EVANS

FINE CHEMICALS

•

Mag. Carb. Pond. P.B.

Sodii Citras P.B. Gran.

Ferri et Ammon. Cit. Evans Garnets

Mag. Trisilicas P.B.

•

Made in England by

EVANS MEDICAL SUPPLIES LTD

Liverpool and London

FINE CHEMICALS • BIOLOGICALS • PHARMACEUTICALS

For GOOD TABLETS

THOMAS KERFOOT & CO. LTD., VALE OF BARDSLEY, LANCASHIRE

Cadbury's

BOURN-VITA

FOR SLEEP — AND ENERGY

NEEDS NO SUGAR

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Known on both sides of the counter . . . To both the chemist and his customers Serocalcin is now well-known, not only for the prevention but also for the treatment of colds. The demand at present is very great and every indication points to its continuing and increasing throughout the winter. Your co-operation is sought in ordering your supplies. We are most anxious to give you good delivery service but, under present conditions, there may be unavoidable delays. So please look ahead and place your orders so that we have a margin of time in which to execute them.

SEROCALCIN

FOR THE PREVENTION AND TREATMENT OF COLDS

HARWOODS LABORATORIES LTD. WATFORD · HERTS · Phone WATFORD 4457

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a QUICK seller for your winter displays

Coughs and sneezes spread diseases and the demand for Penetrol will be greater than ever. Counter displays of Penetrol during the winter season will quickly show a profitable return. Press advertising is increased from October to March so keep up your displays. We will distribute supplies as fairly as we possibly can.

PENETROL
INHALANT

On the P.A.T.A. *Protected List*

W. B. CARTWRIGHT LTD. - RAWDON, LEEDS

RENDELLS
SANTRON

TRUSTED PRODUCTS YOUR CUSTOMERS LIKE TO SEE

MENSINOLE
SILATEX

W. J. RENDELL LTD., 161, ROSEBERY AVE., LONDON, E.C.1

In Pills and Tablets

PERFECTION

is the best when it goes hand in hand with

QUALITY and Dependable Accuracy

Consult the manufacturing chemists with years of INTENSE SPECIALIZATION

ARTHUR H. COX & CO., LTD., BRIGHTON

IMPORTANT NOTICE TO ALL CHEMISTS IN LONDON

G. T. Fulford Co. Ltd. (of Canada), the proprietors of DR. WILLIAMS PINK PILLS are introducing to London, BABLETS, their well-known proprietary for teething, fretful and feverish babies and children. Sales in the Midlands and North of England, where the product has been a "seller" for many years are progressive. Backed by a large and comprehensive advertising plan commencing in November and with your co-operation, early and substantial sales will be ensured.

Publicity aids include :—

- **Advertising in over 200 National and Suburban newspapers.**
- **2,000 posters in Trams, Buses, Trolley Buses and Underground Trains.**
- **Advertising slides in West End and local cinemas and theatres.**
- **Show material.**
- **Special free window display.**

Arrangements have been made to dress sections of chemists' windows with a bold special display. Our representatives are calling on chemists NOW to make arrangements. If you have not had a call and would like to take advantage of this offer, please write or 'phone :—

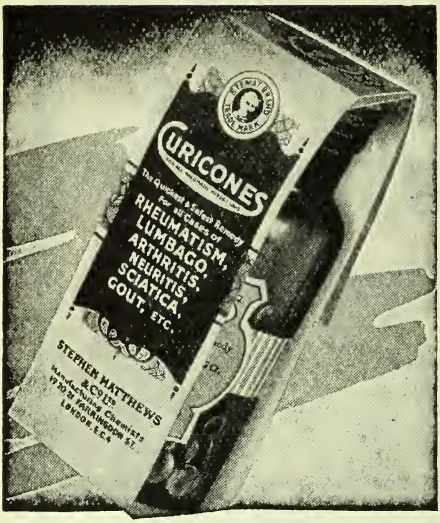
G. T. FULFORD CO. LTD. (of Canada), 8 Royston Park Road, Hatch End, Middx. *Hatch End 50*

Millions will want it this winter !

THE enormous demand for Zubes Cough Mixture still cannot be completely satisfied. But we are making every effort to increase production so that we can fulfil as far as possible the additional orders from the growing demand. If we cannot send you all you can sell, we shall see that you get (as in the past) a fair share of the available supplies.

Enquiries to:
F. W. Hampshire & Co. Ltd.,
Sunnydale, Derby

ZUBES
COUGH MIXTURE



CUSTOMERS *WANT*
THE LARGE 24/- SIZE
You can order it!

We are pleased to draw attention to the fact that

5/- and 24/- Bottles of

CURICONES

are always available through all leading wholesalers

We draw special attention to this because, in recent weeks, many instances have come to light of intending purchasers being informed that these sizes are unobtainable

ORDER THROUGH YOUR USUAL WHOLESALER

CURICONES

For the relief of Rheumatism and kindred troubles

STEPHEN MATTHEWS & CO., LTD.
19-21 FARRINGDON ST., LONDON, E.C.4.

REWARD

Immediate reward of quick turnov and a full profit margin to all chemis stocking and displaying Bow-Wow D Powders. Dog lovers are already ge ting to know and rely on Bow-Wo for their gentle aperient and healt tonic action. Strong appealing adverti ing is giving full support to sales. In t provincial press the names of lo stockists are featured to give *individu* backing. Get *your* name as stockist in *your* local paper, and claim your d by day REWARD.

BOW-WOW!
DOG POWDERS
9 POWDERS FOR 7

Sole Distributors: Emmet Distributing Co. L
140 Park Lane, London, W.1

M A W O F B A R N E T

TRADE MARK

MESSRS. PIN-UP COLD PERM LTD.

appoint

The House of Maw

SOLE DISTRIBUTORS TO THE CHEMIST TRADE

of

'PIN-UP'

COLD

PERMANENT WAVE OUTFITS

TRADE MARK

- TROUBLE FREE COLD PERMS AT HOME
- NOT A CHEMICAL HEAT PROCESS
- NO ELABORATE EQUIPMENT
- SIMPLE, QUICK, SAFE
- PROFIT 50% ON COST
- EXTRA MONEY MAKING BUSINESS
- NATIONAL ADVERTISING
- AMPLE DISPLAY MATTER
- ESSENTIALLY A CHEMISTS LINE

Retail 15/

(Including Tax)

Ask our Representa for details

S. MAW, SON & SONS, LTD., NEW BARNET,

THE SAFE REMEDY
Owbridge's
LUNG TONIC
FOR 72 YEARS

New, arresting advertising
in the National and Provincial Press—
in Magazines—on Poster Sites—
with new display material
available to chemists,
will keep the name of **Owbridge**
before the public again this season
for the 73rd year in the life
of this well known remedy.

NOW 1/3 A BOTTLE (INCLUDING PURCHASE TAX)

P.A.T.A.

P.A.T.A.

"ADVANCE IN PRICE"

LOSALL'S
HALIBUT LIVER OIL CAPSULES

RETAIL PRICE 1/8 .. 12/6 doz.
-do- 3/4 .. 25/- doz.
TAX FREE

WE CAN SUPPLY BY RETURN POST

LOFTHOUSE & SALTMER LTD.
MANUFACTURING CHEMISTS
HULL

IF YOU are interested in the purchase of TOILET ROLLS in 5-gross lots and upwards, we can offer regular deliveries of excellent quality Rolls at interesting prices.—Langleys, 161 Borough High Street, London, S.E.1.

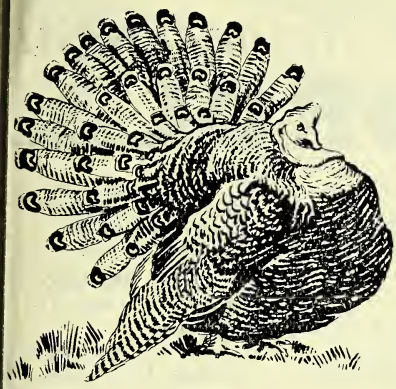
GROUND
DRIED YEAST
MIDGLEY & PARKINSON, LTD.
WARREN WORKS, PUDSEY, LEEDS

D.C.L. VITAMIN B_1 YEAST TABLETS

Each ounce contains a natural Vitamin B potency equivalent to that of 25 mgm. Aneurin Hydrochloride, 1·4 mgm. of Riboflavin, and 5·6 mgm. Nicotinic Acid. Each tablet contains 100 I.U. (approx.) Vitamin B_1.

100 TABLETS 3/9d. 50 TABLETS 2/3d.

MANUFACTURED BY
THE DISTILLERS CO. LTD., EDINBURGH.



Fine Feathers

. . . make fine birds, but in medicinal products appearance alone is not enough. We prefer that excellence of presentation is backed by perfection in raw materials and skill in manufacture. Without this policy our pharmaceutical preparations could never have achieved the distinction they now so widely enjoy.

MANUFACTURING CHEMISTS
OFFICE & WORKS: MANSFIELD ROAD, DERBY.
Phone: Derby 4266 (3 lines) 'Grams: Dania, Derby

Richard Daniel & Son LTD
Derby.

THE
CHEMISTS'
PRINTERS
FOR OVER SIXTY YEARS

THOMAS WAIDE & SONS, LTD.
KIRKSTALL HILL
LEEDS

Now packed in Cartons agai

EPHEDROL

BRAND

For the relief of

COLDS *and* CATARRH

Ephedrol now returns to its pre-war appearance; once more it is packed in cartons and display outer.

The catarrh season is with us again. Recommend Ephedrol with confidence in the quick relief it will give to your customers.

Its patent nasal application bottle is infinitely better, safer and easier to use than spray or dropper, and can be carried in handbag or pocket without fear of leakage.

CLAY & ABRAHAM LTD.
Manufacturing Chemists - **LIVERPOOL, 1**

RETAIL PRICES
1/8 and 3/4
Including Purchase Tax

TRADE PRICES
Excluding Purchase Tax

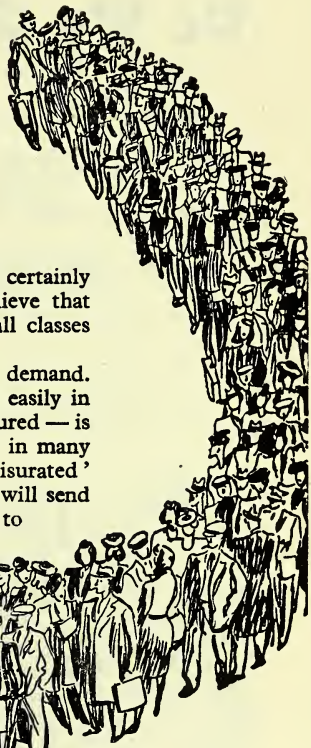
Small size:
1 doz. 12/- per doz.
3 doz. 11/- per doz.

Large size:
1 doz. 23/- per doz.
3 doz. 22/- per doz.
3 doz. lots carriage paid.

CANDA

REGD TRADE MARK

HOW MANY SUFFER FROM INDIGESTION DAILY?



Nobody knows. But it is certainly a large number. And the demand for antacids to relieve that indigestion is a large one; a demand that comes from all classes and every adult age.

'Bisurated' Magnesia is your profitable answer to that demand. In its tablet form, 'Bisurated' Magnesia can be carried easily in handbag or pocket. The powder — plain or mint-flavoured — is recommended for night-time doses. You can, therefore, in many cases make two sales at once. Remember that 'Bisurated' Magnesia is strongly advertised all over the country and will send customers to *your* shop. Make sure you have stocks to satisfy them.

'Bisurated' Magnesia tablets and powder both retail at 1/5 and 2/10 including purchase tax. Trade price 12/- & 24/- a dozen respectively

Additional quantity discounts:

£3 5% £5 7% £10 10% carriage paid on £3 parcels or over.

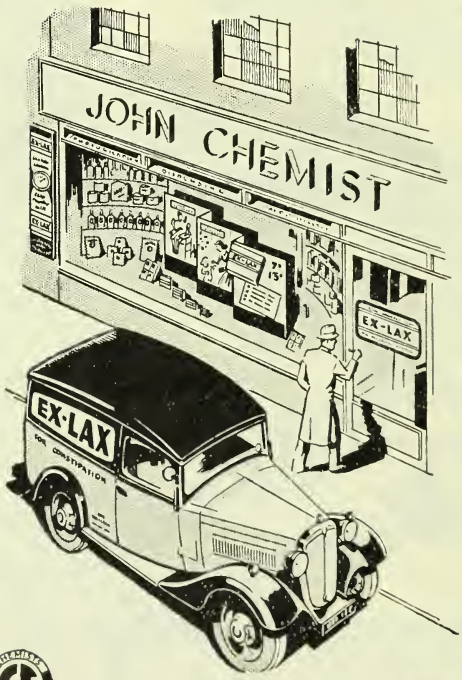
Special display bonus of 14 to the dozen for 14 days window or counter display.

INTERNATIONAL CHEMICAL COMPANY LTD.,
CLIFTON HOUSE, EUSTON ROAD, N.W.1.

Do We Owe You a BONUS ?

IF you have an old Ex-Lax Transparency Sign on show, we *do* owe you a bonus. And, rest assured, you will receive it when our representative reaches you.

Our sales staff are returning from war service, so you can look forward to a visit in the not-too-distant future. New Ex-Lax Transparency Signs are now available—old ones are being replaced throughout the country. So . . .



- If you have an old sign on which a bonus is overdue.
- If you are reserving a space from which an old sign has disappeared through reasons beyond your control.
- If you have space on your door for a new sign—

PLEASE JUST WAIT A LITTLE LONGER UNTIL 'MR. EX-LAX' CALLS!

As our Chemist Friends know well, it is, and always has been, part of the Ex-Lax Policy to respect obligations and pay agreed bonuses in *all* circumstances—that's why it pays 'all-ways' to display

EX-LAX

P.A.T.A.

EX-LAX LTD., SLOUGH, BUCKS.

THE CHOICE OF A SULPHONAMIDE

For the treatment of bacterial infections the sulphonamide preferred is one of high antibacterial activity, by means of which therapeutic blood levels can be rapidly achieved and easily maintained, with minimal toxic manifestations.

These desiderata are to be found in 'Sulphamezathine', a new sulphonamide which many authorities consider to be the drug of choice for use in pneumonia, meningitis, haemolytic streptococcal infections and *Bact. coli* infections of the urinary tract. Highly efficient therapeutically, 'Sulphamezathine' is well tolerated and has little tendency to produce unpleasant effects such as nausea, vomiting or cyanosis. By reason of its ready solubility, renal complications are rarely encountered—a decided advantage over many sulphonamides.

Powder : Containers of 25 grammes, 100 grammes and 500 grammes.

Tablets : 0.5 gramme : Containers of 25, 100 and 500.

Ampoules : 1 gramme (in 3 c.c.) : boxes of 6 and 25.
3 grammes (in 9 c.c.) : boxes of 5 and 25.

Obtainable through your usual suppliers.

Literature will be forwarded on request.

'SULPHAMEZATHINE'
brand
SULPHADIMETHYLPYRIMIDINE B.P.C.

A product of
IMPERIAL CHEMICAL [PHARMACEUTICALS] LTD.
THE RIDGE, BEECHFIELD ROAD,
ALDERLEY EDGE, MANCHESTER

Ph. 150r

SCIENCE WITH PRACTICE

Established 183

Ground Gums — We are actual millers of all powdered gums, including **ACACIA, TRAGACANTH** and **KARAYA**. We are able to offer a suitable grade for any product in which any of these is used. Our long experience as to the best type and quality for particular uses is readily placed at manufacturers' service. In all questions of Powdered Gums it will pay you to consult—

StaffAllenS

STAFFORD ALLEN & SONS, LTD., WHARF ROAD, LONDON, N 1

TAS/AL 138

IODINE *and* IODIDES

CCL

Carnegie

Chemicals (WELWYN) Ltd

WELWYN GARDEN CITY, HERTFORDSHIRE

NATIONALLY ADVERTISED

This is the curl that's causing comment. You—and your customers—will see it advertised in all the leading newspapers . . . it's the new motif for bandbox—*the really scientific soapless shampoo.* Bandbox advertising, strikingly unusual has already won the hearts—and hair—of women throughout the country.

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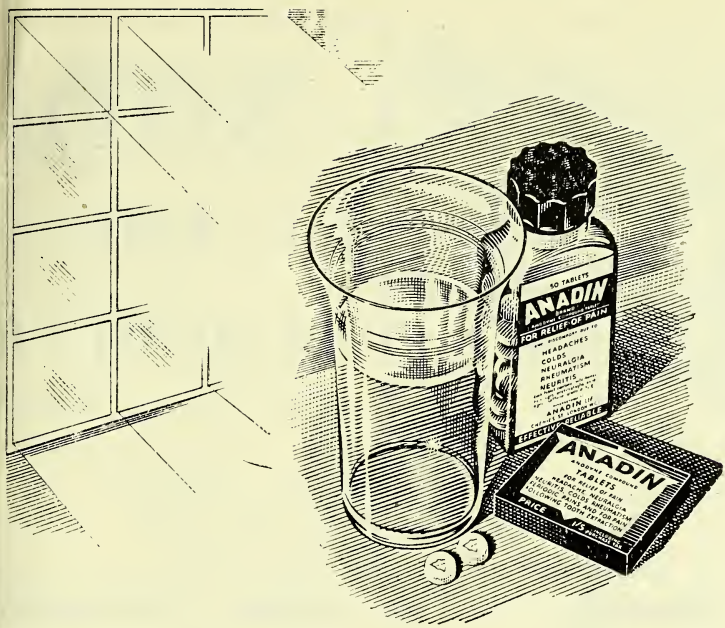

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REGD.

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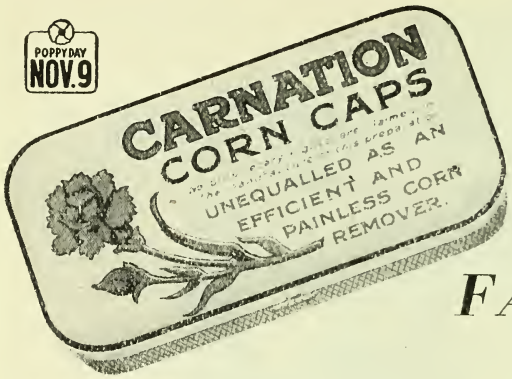

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A P.A.T.A. article.

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of OLD BOND STREET

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50 YEARS SERVICE

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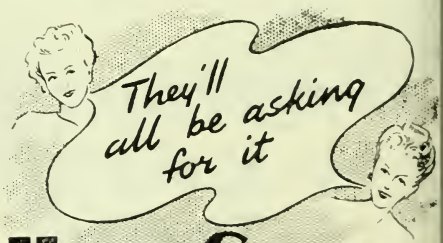
SALES DEPARTMENT, AINTREE RD., PERIVALE, GREENFORD, MIDDLESEX



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1/3 each
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★*Supplies unfortunately restricted at present*
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and Beauty Aids
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1-oz. & 16-oz. jars.

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PITUITARY EXTRACT (P.L.)
Licensed and standardised in accordance with the Therapeutic Substances Act. For the Induction of Labour ; Uterine Inertia ; Post Partum Hæmorrhage; Surgical Shock; Diabetes Insipidus.
Ampoules 5, 10 and 20 I.U.

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Useful for the treatment of Asthma; Epistaxis; Tonsilitis; Hay Fever; Influenzal Crisis; Surgical Shock; etc.
Solution: 1 in 100 and 1 in 1000 Ampoules: 1 in 1000.

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The

CHEMIST AND DRUGGIST

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NEWS OF THE WEEK

Veterinary Anaesthesia Research.—The terinary Educational Trust has estab- ned a fund for research in spinal aesthesia of animals.

German Chemical Industry Control.— . Ernest Bevin stated in the House of mmons on October 22 that the Govern- nt intended to bring the German heavy emical industry under some form of public nership.

Penicillin for Veterinary Surgeons.— amendment of the Control of Penicillin o. 1) Order, 1946, which comes into force November 1, 1946, places veterinary rgeons on the same footing as registered edical or dental practitioners for the ac- isition and disposal of penicillin. The esent procedure whereby veterinary sur- ons obtain their penicillin through speci- y licensed suppliers terminates on Octo- r 31.

Purchase Tax Refund Proposals.—The ational Chamber of Trade on behalf of e National Retail Trade Associations, has bmitted to H.M. Customs and Excise pro- sals for the refund of Purchase Tax paid goods that are in the hands of retailers when reductions or withdrawals of tax take place. The proposals, which are made under ten sections, provide for the Customs and Excise to make spot checks after claims have been made, and for assistance from trade associations in the application of the scheme.

Poisons Amendment Orders. — The Home Office wishes to draw the attention of pharmacists and others to amendments to the Poisons List and Rules (S.R. & O., 1946, Nos. 1625-26) which came into force on October 15. The amendments, the drafts of which were mentioned previously in these columns (*C. & D.*, June 22, p.769-70) place dihydrodesoxymorphine, pethidine and its salts, and zinc phosphide in the First Schedule, but provide for preparations of zinc phosphide for the destruction of rats and mice (exempted from Schedule I) to be sold by listed sellers of Part II poisons. Copies of the Orders may be obtained from H.M. Stationery Office, Kingsway, London, W.C.2, price one penny each.

Distribution Census Boycott. — The National Chamber of Commerce has recommended retail traders to boycott the pilot

census of distribution being organised in certain towns by the Board of Trade.

Rheumatism Research Grant.—A rheumatism research centre is to be established at the University of Manchester, with the help of a £100,000 grant from the Nuffield Foundation.

Nottingham Fire.—A storage building in Conford Steet, Nottingham, occupied by Synthetic Waxes, Ltd., manufacturing chemists, was completely destroyed by fire recently.

New Pharmacy at Hamilton.—The Hamilton, Lanarkshire, Burgh surveyor has been instructed to prepare plans for the erection of shops, including one chemist's shop, in the Fairhill housing estate.

Belle Vue Excursion.—Nearly 300 employees of F. W. Hampshire & Co., Ltd., Sunnydale, Derby, were taken by coach to Belle Vue, Manchester, recently, for a staff outing.

Chemists' Warehouse Fire.—The top two floors of the warehouse of James Taylor, Ltd., wholesale chemists and druggists, 132 Trongate, Glasgow, were destroyed recently by fire. Damage is estimated at £5,000.

World Food Organisation.—The Preparatory Commission of the United Nations' Food and Agriculture Organisation meets in Washington on October 28 to plan the provision of "diets of a health standard for people of all countries."

Northern Ireland Retention Fees.—Members of the Pharmaceutical Society of Northern Ireland who wish their names to be included in the forthcoming issue of the Register are reminded that retention fees must be paid not later than November 4.

Heparin Flown to Ship.—In response to an S.O.S. from a Swedish steamer for supplies of heparin, Duncan, Flockhart & Co., Edinburgh, and the Edinburgh Royal Infirmary pooled their resources to obtain the required quantity. The drug was later flown to the ship 135 miles off Aberdeen.

Weston-super-Mare Officers.—At the sixth annual meeting of the Weston-super-Mare Pharmaceutical Association, held recently, the following officers were elected: *Chairman,* Mr. N. J. Lacey; *Vice-chairman,* Mr. P. J. Holbrook; *Secretary,* Mr. E. H. Rake.

Brighton Lantern Lecture.—There was an attendance of more than seventy at a recent meeting of the Brighton and Hove Branch of the Pharmaceutical Society whe Dr. F. J. Dyer gave a lantern lecture e titled "Twenty Years of Pharmacologic Research."

Joint Meeting at Yeovil.—At a joi meeting of the Somerset Branches of t Pharmaceutical Society and the Nation Pharmaceutical Union held recently i Yeovil, Mr. F. C. Wilson (a member of t Council of the Pharmaceutical Societ spoke on "Pharmacy Then, Now and in t Future."

Staff Dinner.—The staff of E. Mo Ltd., chemists, Fern Grove, Feltham, we guests of the managing director (Mr. Edg Moss) at a recent dinner and dance. souvenir programme presented to the gues outlined the growth of the business fro one shop in 1915 to a chain of ninete branches with more than 100 employees 1946.

Company's Cricket Dinner.—The soci club of Thomas Morson & Son, Ltd., ga a dinner at Waltham Cross recently, to ma the close of a successful season of the crick section. Mr. Thomas D. Morson (the co pany's chairman, and club president) pr sided, and Mrs. Morson made a presentati of prizes. The celebrations concluded wi dancing.

Employment of Hospital Pharmacists.— In a notice to hospital authorities pointi out that pharmacists, dispensers and ce tain other hospital workers may now engaged from any source, the Ministry Health suggests that vacancies for pharm cists and dispensers may be notified to t Pharmaceutical Society, or to the Region Appointments Offices of the Ministry Labour and National Service.

British Barytes Producers.—At t annual meeting of the British Barytes Pr ducers' Association, held recently, t following were among officers elected:- *Chairman,* Mr. I. D. Orr (Arran Baryt Co., Ltd.); *Vice-chairman,* Colonel J. Ramsden (Devonshire Barytes Co., Ltd. *Treasurer and Consultant,* Mr. Alexand Reid; *Secretary,* Mr. R. Murdin Drak 166 Piccadilly, London, W.1.

Comb Import Licences.—The Board Trade announces that the list of goods f which they are prepared to consider t issue of import licences has been extend to include, among other items, toilet com of horn or ebonite. Applications shou be made on the usual form obtainable fro the import licensing department and shou refer to notice to importers No. 210. A

cations will be entertained only from pre-r importers.

Walthamstow Annual Meeting.—At the nual meeting of the Walthamstow Branch the National Pharmaceutical Union, held ently, the following officers were elected: *airman,* Mr. S. T. James; *Vice-chair-an,* Mr. L. H. Moppett, *Secretary,* Mr. . E. Gaze, 10 The Avenue, Highams Park, ndon, E.4. Among matters discussed re closing hours, excessive prescribing d doctors' handwriting. It was decided arrange a meeting to revive the Wal-amstow Pharmaceutical Association, hich had been merged into the West Ham sociation.

Secretary for Twenty-one Years.—A eque for £35 was presented to Mr. John ague, J.P., M.P.S., at a recent meeting the Lincoln Branch of the Pharmaceuti-l Society to mark his retirement from e office of secretary after twenty-one years. nong the speakers who paid tribute to r. Hague were the mayor of Lincoln, Mr. G. Wells (a member of the Council of e Pharmaceutical Society) and Mr. S. earn (National Pharmaceutical Union). r. Hague has served as mayor of Lincoln. d as chairman of the National Pharma-utical Union. Of the twenty-one appren-es trained by him, twenty, including two embers of his own family, have since alified.

Government's "Extra Effort" Cam-ign.—At a Press conference in London on ctober 21, Mr. Francis Williams (Public elations Advisor to the Prime Minister) scribed the progress made up to date and e future plans of the Government's pro-ction drive. The effort to obtain in-eased production, said Mr. Williams, was aking good progress. Readiness to co-erate had already been shown between anagement and labour, and at the recent nferences, 25,000 representatives of both des in industry had shown their willing-ss to get together on production problems. he next phase was to secure co-operation factory level and for this purpose posters, aflets, films, etc., would be used. Some of e new production posters were on view, e principal theme being "Extra effort ow means better living sooner."

New Chemical Notation.—At a meeting n October 21, called by the Royal Institute f Chemistry, the Chemical Society and ther bodies, Dr. G. Malcolm Dyson, M.A., xplained his new ciphering system of ideo-rams for the formulas of organic chemical ompounds. The large audience was en-thusiastic in its reception of this simpler method of expressing complex formulæ. Dr. Dyson emphasised the confusion which prevails, not only among British chemists but also abroad, in the naming of chemical compounds. In the past this difficulty was overcome to some extent by the use of "trivial" names, such as strychnine, C.T.A.B. and pseudo-strophanthin; but these names did not conjure up a chemical structure. The new notation gives a simpler linear expression for any compound, no matter how complex. This expression is unique for a given structure. In using "ring" formulæ, confusion has arisen because of the enumeration of the carbon atoms in different ways; the new notation has overcome this difficulty.

Export Control Changes.—Changes in Export Control Orders (S.R. & O., No. 1661) are announced by the Board of Trade. These changes, which came into operation on October 21, have the effect of freeing a considerable number of pharmaceutical chemicals and crude drugs from export licensing control. Items removed from control are as follows:—

Group 1.—Cinnamon and cinnamon chips; *Group* 13.—Acetylsalicylic acid, arecoline and its salts; bacteriological products, the following: antigen (Kahn), antigen (Wasserman), diphtheria antitoxin, diphtheria prophylactic, Schick control, Schick test toxin; bismuth compounds, caffeine and its salts, chiniofon, chloral hydrate, chrysarobin, guanidine carbonate, guanidine nitrate, heparin, hydrastine and its salts and preparations thereof, hydrastis, 8-hydroxyquiniline and its compounds, liver extracts, mannitol, pancreatin, papaverine and its salts, para-chlor-meta-xylenol, phenothiazine, pilocarpine and its salts, rhubarb (rheum), salicylic acid, senega, sodium salicylate, strychnine and its salts, sulphamethazine and its preparations, sulphathiazole and its derivatives and preparations thereof, thymol and urethane.

The following items in the export licensing list have been amended: *Group* 3.—Insecticides, fungicides, weed-killers, animal dips and disinfectants have been excluded from the scope of the item "products of the sulphation (sulphonation) of aliphatic alcohols and aliphatic hydrocarbons, etc." *Group* 13.—The item "red squill and preparations thereof" has been substituted for the item "scilla (squill) and preparations of red squill." As regards the general provisions of the Order, the prohibition on the export of enemy insured goods has been removed.

THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

Raw-material Markets

The President of the Board of Trade was asked by MR. OSBORNE what raw-material markets had been closed in addition to the Liverpool cotton exchange. SIR STAFFORD CRIPPS replied: Several raw-material markets were closed during the war, but in no case, other than cotton, has any final decision been taken that they shall not reopen when circumstances permit.

E.P.T. Refunds to Private Traders

Excess Profits Tax figured in a question by COLONEL STODDART-SCOTT, who asked the Chancellor whether a private trader, not a limited company, would be allowed to utilise the 20 per cent. returnable E.P.T. for improvement to machinery and buildings, or if it would be added to income and be subject to super-tax. MR. H. DALTON replied: A private trader is allowed to use E.P.T. post-war refunds for improvement to machinery and buildings, but the refunds are taxable income and are chargeable to surtax if received by an individual.

British Absence from Trade Fair

On October 15 COLONEL WHEATLEY asked the President of the Board of Trade if, in view of the importance of the export trade, he would make a statement regarding the absence of a British pavilion at the recent trades exhibition at Stockholm. MR. MARQUAND (Secretary for Overseas Trade) replied that he assumed Colonel Wheatley was referring to St. Erik's Fair, which was held from August 24 to September 1. "The attention of United Kingdom manufacturers was drawn to the fair, which has only recently assumed an international character, by an announcement in the 'Board of Trade Journal,' and I understand that a few United Kingdom products were exhibited by Swedish agents of U.K. firms. The Government has accepted a recommendation by the Ramsden Committee that it should undertake official participation in international trade fairs only when it is clear that industry intends to participate on an adequate scale. In this instance the condition was not fulfilled, partly, no doubt, because there was little time available to arrange an adequate display."

Health Bill in House of Lords

In Committee on the National Health Service Bill in the House of Lords on October 17, Lord Moran moved an amendm to permit the Central Health Servi Council, with the approval of the Minis to appoint standing advisory committees assist them in the exercise of their functi in regard to all or any matters relating particular services provided under the B and that any such standing advisory co mittee might consist either wholly of me bers of the Central Council or partly members of the Central Council and pa of other persons being persons of experie in the particular service with which committee was concerned.

LORD MORAN said he moved this ame ment for the purpose of strengthening Central Health Services Council. "Wl this Council was proposed by the Minis it had a very tepid welcome from the p fession. I think the profession felt tha was simply another of the old advisory co mittees which, in the past, Governm departments had set up and which l sometimes seemed, no doubt wrongly, to largely for the purpose of persuading peo that the best brains of those connected w the particular profession were be sought." He considered the Minis was perfectly justified in claiming that t was not a committee comparable to the advisory committees of the past, but as ti passed it was found that the Central Hea Services Council had become swollen. A it was proposed, apparently to overcome large number, that there should be a nu ber of standing advisory committees, to appointed by the Minister, and to rep direct to him though, at the same time, th would report to the Council.

THE LORD CHANCELLOR replied tl they had provided that the standing co mittees should report to the Minister dire but also send a copy of their report to t Central Council, so that the Council, in turn, had a chance to consider the rep of the standing committee and make su observations as it thought appropriate on Suppose it were merely a question of so matter of dentistry. "Is it really nec sary that we should wait for the report forty-one members, of whom, for instan two are registered pharmacists, one a m wife, two registered nurses, and so on? it not right, in a case like that, that standing committee should have the rig to report to the Minister direct?"

Lord Moran withdrew his amendment.

TOPICAL REFLECTIONS

Rigidity

The two editorial articles on p. 503 deal diciously with current difficulties in obning necessary supplies of machinery and her goods. Though the circumstances of difficulties differ, the result to the waitg traders is much the same. No one, I lieve, objects to priority being given, for ne time to come, to export trade. But cumulating evidence shows that developnts in the chemical and other industries e being held up "for want of machinery, struments, or parts which are being rected abroad," and that the monetary lue of several of these items is trivial. e must conclude that departmental zeal s outrun departmental discretion. This istance on a rigid uniformity of practice a weakness in Whitehall administration at has been pointed out times without mber. What is needed is flexibility with the limits of agreed principle. Somewhat ferent considerations arise in the cases dicated in your second article and in a rrespondent's letter on p. 511. The itial mistake—a serious one—made in ing quotas for supplies to retailers during e war was to select as the basis period e twelve months June 1939 to May 1940. ven before September 3, 1939, a considerle departure of people from "unhealthy" eas had come about, and by May 1940 is shift of population was practically comete. So great has been the desire, since E. day, of old residents to return to their vn houses if those houses were in any dee habitable that a steady influx into mbed areas has taken place. The claim retailers in these districts for sympathetic eatment by wholesalers is a strong one.

Their Professions

Statements made in the House of Lords behalf of the Government during the cond reading of the National Health Serce Bill (p. 492) do not strike me as imessive. We were then told that the posion of the Minister of Health is analogous that of a commander-in-chief when planng a campaign against a very dangerous emy. It was explained, not for the first me, that the Minister's powers would be ercised by "a regulation-making power." he explanation brings us face to face with e old uncertainty as to the safeguard forded by the presentation of statutory gulations to Parliament for approval. hose who are completely satisfied with e Bill as it stands will not worry much, it may be expected, about scrutinising regulations made in pursuance of the Act after it is passed. Those who are not so satisfied will probably find their chances of effective protest against regulations exiguous. Remarks by subsequent speakers in the debate may well make your readers wonder what is coming to them. It was stated, for instance, that twenty-six clauses in the Bill provide for the making of regulations. Lord Moran "hoped that the administrators would be experienced men who were the leaders of the medical profession, trusted by the profession," and asked why the Ministry was so reluctant to use the best brains from the profession on the advisory committee. The general impression left by this report is that when the fair professions of the Government are translated into rules and orders, representatives of pharmacy will need to scrutinise the drafts of these rules and orders with the utmost care.

Happy Reminiscences

In "Contacts of Half a Century" (p. 494) Mr. D. J. Williams has contributed reminiscences that should appeal to every pharmacist. During a busy life he has had experiences of such varied types that he may well arouse the envy of those whose lot has been cast in more uniform surroundings. Students now planning their careers will gain useful hints from this record of the work of a well-known "head." In one date only did I discover a slip of memory. It was at the Nottingham meeting of the British Pharmaceutical Conference in 1922, not at the later meeting at Bath, that the Conference was amalgamated with the Pharmaceutical Society. Restoring my recollection of that event with the help of your issue of July 29, 1922, I have again read the speeches then made for and against the proposal to unite the two organisations. The discussion was good-humoured and frequently amusing. As your report states, one speaker asked whether Sir William Glyn-Jones could be called upon to address the meeting. But he and the president of the Pharmaceutical Society (Mr. E. T. Neathercoat), who were seated on the platform a little apart from its other occupants, remained mute. The final paragraph of Mr. Williams's article expresses thoughts worth remembering. Especially do I commend his remark that "the cultural background must ever be in our minds; it is necessary to be well instructed or trained . . . but we should not forget the value of social contacts and service."

Xrayser

COMPANY NEWS

Obelit Chemical Industries, Ltd. (P.C.).—Capital £500. To carry on business as indicated by the title. First directors are to be appointed. R.O.: 47a Manchester Street, London, W.1.

Velvetex, Ltd. (P.C.). — Capital £1,000. To carry on the business of manufacturers, importers and exporters of toilet requisites and preparations, perfumes, powders, etc. First directors are to be appointed. R.O.: 21 Cardiff Road, Luton.

L. A. Hoare, Ltd. (P.C.).—Capital £1,000. To carry on the business of manufacturers of, and dealers in cosmetics, medicines, etc. First directors are to be appointed. R.O.: Amberley House, Norfolk Street, London, W.C.2.

General Chemical Products, Ltd. (P.C.).—Capital £100. To carry on the business of manufacturers of, and dealers in chemicals, cosmetics, pharmaceutical goods, etc. Ambrose Appelbe, 7 New Square, London, W.C.2, director. R.O.: 7 New Square, London, W.C.2.

Smalley's Chemists, Ltd. (P.C.).—Capital £10,000. To carry on the business of wholesale and retail chemists and druggists, etc. Francis L. Tew and John W. J. Morris, both of 10 High Street, St. Albans, Herts, directors. Solicitors: F. Beal, Son and Sherrard, St. Albans.

J. Sharott, Ltd. (P.C.). — Capital £1,000. To carry on the business of chemists, etc. Jack Sharott, 690 Holloway Road, London, N.19 and Estelle Frankel, 18 Peter Avenue, London, N.W.6, directors. R.O.: Callard House, 74a Regent Street, London, W.1.

Odelma, Ltd. (P.C.).—Capital £100. To carry on the business of manufacturers, importers and exporters of, and dealers in cosmetics, beauty preparations and requisites, perfumes, etc. First directors are to be appointed. Solicitors: Richards, Butler & Co., Trafalgar House, Waterloo Place, London, S.W.1.

Kamisa Laboratories, Ltd. (P.C.).—Capital £2,000. To carry on the business of manufacturers, packers and bottlers of, and dealers in patent medicines and foods, condiments, manufacturers of and dealers in syphons, filters, bottles and receptacles, etc. Kamil S. Isa (Iraqi), Baghdad, chemist and merchant, and Clarence F. Hall, Fenchurch Street, London, E.C., directors. R.O.: 31-34 Fenchurch Street, London, E.C.3.

Horlicks, Ltd. have recommended final dividend of 16⅔ per cent. (actual), l tax at 9s., for the year ended March 3 1946, making a total for the year of per cent.

Increase of Capital.—The nomi capital of Ashe Laboratories, Ltd., has be increased by the addition of £4,000 in £ 6 per cent. redeemable preference shar beyond the registered capital of £36,00

BUSINESS CHANGES

Genatosan, Ltd., will open new p mises at 65 Berkeley Street, Glasgow, C (telephone: Douglas 4968) on November

The Chemical Workers' Union l appointed Mr. Bob Edwards, former Nor west area officer, assistant general secreta

Glastics, Ltd., have opened new offi at 24 Museum Street, London, W.C.1 (te phone: Museum 9876).

Dr. M. A. Phillips, F.R.I.C., has be appointed technical advisor and consulta to Carl Mumby (Production), Ltd., 46 Peters Avenue, Cleethorpes.

Mr. Leonard B. Edwards has been a pointed secretary to the Drug Houses Australia Export, Ltd., 2 Norfolk Stre Strand, London, W.C.2.

Mr. J. P. Dunbar, M.P.S. (The Brit Drug Houses, Ltd.) states that his telepho number (Guildford 5053) is unchanged his new address (see *C. & D.*, October p. 484).

Ashley & Weeks, Ltd., Lond announce that Mr. Frederick Dallow l been appointed director (research); M C. L. J. Coles, B.Pharm. (Lond.), Ph. has been appointed works chemist in cha of pharmaceutical production.

Dr. Frank Hartley, B.Sc., Ph.C., l been appointed manager of the scienti services department of The British Dr Houses, Ltd. Dr. Hartley, who is at prese secretary of the Therapeutic Research C poration of Great Britain, Ltd., takes his new appointment on November 1.

The Scottish Co-operative Whol sale Society, Ltd., have acquired the f lowing pharmaceutical businesses: 89 Hi Street, Carnoustie, formerly carried on Mr. G. C. McGonigal, M.P.S.; 126 Co mercial Street, Kirkcaldy; and 11 Ma Street, Tobermory, Isle of Mull, forme carried on by Miss W. M. MacDona M.P.S.

LEGAL REPORTS

Deficiency on Analysis.—A. E. Stan-d, Ltd., manufacturing chemists, 37 non Walk, Tadcaster, Surrey, were fined , with £11 1s. costs, at Coventry re-ly for selling a drug bearing a label ulated to mislead. For the prosecution as stated that the chief Food and Drugs inspector to the Warwickshire County ncil visited the shop of Mrs. Elizabeth wthorne, Allesley, on August 9, and e obtained a box of sulphur tablets. label specified that they contained 5 cent. sulphur and gr. ½ tartaric acid, ach tablet, whereas analysis showed no aric acid and only 3.95 per cent. sul-r.

mprisonment Sentence Quashed.—At London Sessions Appeals Commit-on October 10, Mrs. Amy Wernher, se address was given as a Bournemouth sing home, appealed against sentence of months' imprisonment passed upon her Marylebone for procuring a narcotic le an unauthorised person. It was stated Mrs. Wernher obtained a total of nty-five tablets of Omnopon by false scriptions. On April 8, and on two sub-ent occasions, she was given prescrip-s for Omnopon by a doctor in St. John's od but, when she asked for more, he e to the conclusion she was an addict; refused to give further prescriptions. . Wernher then went to a chemist in er Street with a forged prescription ch was purported to be signed by the tor and obtained twenty-five tablets. o days later, she similarly obtained nty-five tablets from a Finchley Road mist and a further supply from another mist four days later. On July 12, she t to a chemist in Park Road, Hamp-d, with a prescription purporting to be ed by the same doctor, but the chemist w the doctor's signature, refused to ply, and communicated with the doctor. October 1942, Mrs. Wernher pleaded lty to four similar offences of obtaining same drug, and she was bound over on dition she entered an institution to be ed. She remained only a short while l left before she was cured. The doctor s of opinion that she should be cured hin six months, and that, coupled with fact that Mrs. Wernher did not stay the institution, was probably why she s sentenced. On behalf of Mrs. Wernher, was stated that she originally took Omnopon on a doctor's certificate for the relief of asthma, and although this eventually became a habit it could not be called drug addiction. When she was bound over in 1942 she was sent to a mental home, but after a time could not stay there with the mental patients. She succumbed to temptation when she had an excessive amount of asthma. The medical officer of Holloway Prison said that, in her opinion, Mrs. Wernher had no craving for the drug. Since she had been in a nursing home her condition had been much improved. The Committee quashed the prison sentence and bound Mrs. Wernher over for two years on condition that she entered a nursing home and resided where directed by the probation officer.

Appeal Dismissed but Fine Reduced.—An appeal by Dr. E. G. T. Liddell (Waynflete Professor of Physiology at Oxford University) against the sentence of a £25 fine passed on him by the Oxford city magistrates when he appeared before them was dismissed at the Oxford quarter sessions recently, but the fine was reduced to £5. An appeal by Mrs. G. K. Scragg (an assistant in the department of physiology), who had been fined £5 in the same court, was allowed. The fines had been imposed on a summons alleging that the appellants caused unnecessary suffering to a number of cats by unreasonably omitting to give them proper care and attention. Professor Liddell had denied that unnecessary suffering was caused, and claimed that his work was of "vital importance to medical education and to the country generally." The recorder said that none of the allegations was proved against Professor Liddell except that of overcrowding. It was only fair to Professor Liddell and to Mrs. Scragg to say that he accepted the evidence in its entirety as regards the facts of the case. "In my view he acted, except in one particular—that of overcrowding—in a proper and humane manner." Dr. Liddell had made an error of judgment in a sense—one over which he had control. He had put too many cats into the compound while they were suffering from distemper. The cats which had recovered were overcrowded with the cats that were ill. There was no question that Dr. Liddell performed any cruel experiments. The experiment was non-painful and was designed for the purpose of curing an animal disease—cat distemper.

TRADE NOTES

New Pack.—Neave's Food, Ltd., Fordingbridge, Hants, have introduced a new pack for Neave's food, as illustrated in an announcement elsewhere in this issue.

Toilet Papers.—Freeder Bros. Paper Mills, Brimsdown, Enfield, Middlesex, are in a position to offer toilet paper in quantity, either in rolls or in flat packets.

Research Facilities.—The facilities of the company's research department are offered by Empire Rubber Co., Dunstable, Beds, to concerns interested in the production of rubber products.

Mascara.—Arcancil, which is described as a non-smarting mascara for eyelashes, is advertised in this issue by the manufacturers, Valdor Laboratories, Ltd., London, N.W.1, makers of Val Guitare lipsticks.

In Cartons Again.—Clay & Abraham, Ltd., Liverpool, 1, are again packing Ephedrol (for the relief of colds and catarrh) in cartons. Terms are given in the company's announcement.

B-complex Therapy.—A four-page two-colour leaflet on Beplex elixir and capsules has been issued by the manufacturers, John Wyeth & Brother, Ltd., Clifton House, Euston Road, London, N.W.1.

Surgical Syringes.—Injecta Surgical Co., Ltd., 21 Little Portland Street, London, W.1, are actual makers of surgical and veterinary syringes and can supply new barrels to fit syringes of their own manufacture.

Price List.—A new 28-page abridged price list has been issued by McClure, Young & Co., Ltd., manufacturing chemists, Standard Road, Park Royal, London, N.W.10.

Corn Caps.—"Still the favourite" is the slogan with which Cuxson, Gerrard & Co., Ltd., Oldbury, Birmingham, are drawing the attention of the trade to their speciality Carnation corn caps.

Aspirin Tablets.—Howards & Sons, Ltd., Ilford, claim that Howards' aspirin tablets are the most profitable brand of aspirin listed in the protected list of the Proprietary Articles Trade Association.

Handy Pocket Container. — E.N.T. Manufacturing Co., Ltd., 433 Gloucester Road, Bristol, 7, are now issuing E.N.T. capsules in outers of one doz. glass tubes each containing ten capsules. The product is on the C.F. list.

Change of Name.—Johnson Agencies (Proprietaries), Ltd., Clarendon Road, Croydon, state that their product former called Whitemints is now re-named Vol mints, a registered title. Stocks are obtai able through wholesalers or direct.

Local Advertising.—Names of loc stockists are being incorporated in advertis ments now appearing in the provinci Press for Bow-wow dog powders, the sc distributors of which are Emmet Distribu ing Co., Ltd., 140 Park Lane, London, W.

Five-day Week.—Carl Mumby (Produ tions), Ltd., 46 St. Peters Avenue, Cle thorpes, who have been operating a fiv day week for the past seven years on experimental basis, have decided to co tinue it as a permanent policy.

Metal Containers. — An illustrat catalogue sheet of metal containers issu by Percenta, Ltd., 69 Borough High Stre London, S.E.1, is available. Subscribe may obtain copies by writing to the co pany for Sheet No. 51.

Plastic Dust-comb.—A. Seazell & C 56 Staniforth Street, Birmingham, 4, ha introduced the Kelware dust-comb whic made from plastic material, is "strong a pliable." Prompt deliveries are promise and chemists are invited to write for samp and prices.

National Advertising.—"New and a resting advertising" is being put out in t national and provincial Press by W. Owbridge, Ltd., The Laboratory, Hull, keep the name of Owbridge's lung to before the public during the coming wint season.

Reduced Purchase Tax.—T. F. Bristow Co., Ltd., Colindale, London, N.W.9, a nounce that the Customs and Excise aut orities have consented to reduce from 1 per cent. to 16⅔ per cent. the purchase t on all issues of Bristow's baby powder aft October 13.

Christmas Perfumery.—Sir John Pra & Co., 89 Forset Court, Edgware Roa London, W.2, have available a limited su ply of assorted perfumes for the Christm trade. The perfumes are available in co tainers of four sizes, the terms for whi are given on another page.

Hygienic Chamber for Infants.—A no corrosive acid-proof hygienic child's cha ber is issued under the name Totty-P by J. Billig & Sons, Ltd., Biltin Worl Fonthill Road, London, N.4. The chamb has a detachable ring and is made aluminium, with plastic handle.

Fifty Years Completed.—Evan Williams ., Ltd., Aintree Road, Perivale, Middle-, record that fifty years have passed since e Evan Williams shampoo was introduced the trade. The supply position, which s recently been acute, is gradually im-oving and available stocks are being uitably distributed.

Inhaler Spare-parts.—The request is ade by Moore Medicinal Products, Ltd., Queens Terrace, Aberdeen, Scotland, at chemists who require spare parts for halers issued by the company should der from a descriptive price list which is ely available either from the company's al representative or direct from its head ice.

High-grade Chemicals. — Monsanto hemicals, Ltd., Victoria Station House, ndon, S.W.1, state that most Monsanto emicals are prepared to closer specifica-n than those of the British Pharmacopœia British Standards Institution. A list of chemicals produced by the company given in an announcement on another ge.

Now in Twenty-first Edition.—A book-, "The Crisis in a Woman's Life," issued Clinical Products, Ltd., Richmond, Sur-y, manufacturers of Menopax, has now ached its twenty-first edition; copies are ailable exclusively to Menopax stockists. e sole distributors of Menopax are Maw, Son & Sons, Ltd., Aldersgate ouse, New Barnet, Herts.

Bonus for Displaying Sign.—Ex-Lax, Ltd., Slough, Bucks, have produced a new transparency sign which will gradually replace existing signs now being exhibited at pharmacies throughout the country. Chemists who display the sign are entitled to a bonus, which, the makers state, will be paid after a representative of the company has had an opportunity of visiting the shops in his area.

Supplies Again Available. — International Foot Appliances, Ltd., 92 Baker Street, London, W.1, are again in a position to supply model feet for the display of Omniped foot cushions. The models are life-size, dressed with an actual foot cushion, and have a gilt base bearing the word Omniped. Chemists who are in a position to use the item in their window or counter displays should write to the manufacturers.

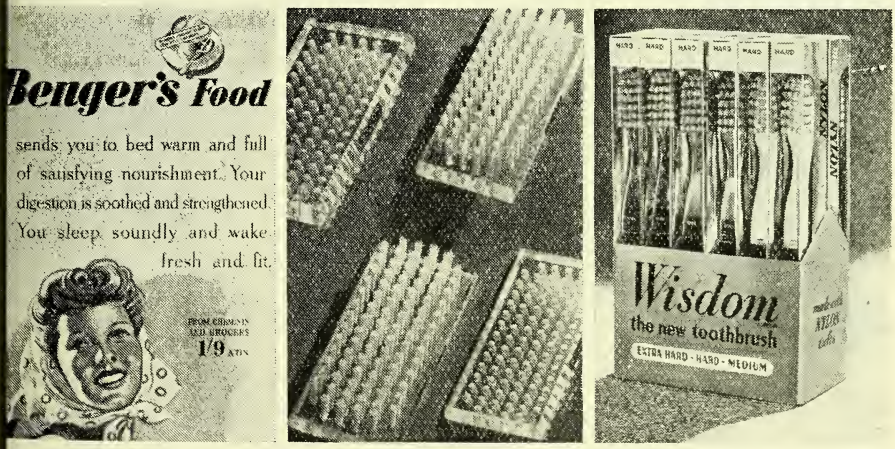
Proprietary Articles Trade Association

Additions to Protected List.—*The Cannon Rubber Manufacturers, Ltd.*, Modern soother, 1s. 6d., 11s. 4d. doz.; Modern Junior teat, 3d., 23s. gross (exempt from tax).

Pond's Extract Co., Ltd., Pond's vanishing and cold creams, now available in tubes, 4s. 6d. doz., tax 4s. 6d. doz., inclusive retail price 10½d.; 9s. doz., tax 9s. doz., i.r.p. 1s. 9d.

Alterations.—*The Crookes Laboratories, Ltd.*, Increased prices, November 1, Karvol inhalant, 2s., 16s. doz., tax 2s. 8d. doz., i.r.p. 2s. 3d.

Jeyes Sanitary Compounds Co., Ltd., Increased prices, October 14, Jeyes fluid, quart tins, 4s. 3d., 40s. 3d. doz. (exempt from tax).



the "Britain Can Make It" Exhibition.—*Left*, a poster for Benger's food (Benger's Food d.); *centre*, Nylon nail-brushes, and *right*, Wisdom Nylon tooth-brushes (Addis, Ltd.).

MARRIAGES

CAIRNS—GILLONE.—At Dumfries recently, Thomas Cairns, M.P.S., 37 Mottram Road, Stalybridge, Cheshire, to Marion Kennedy Gillone, Gatehouse-of-Fleet, Kirkcudbrightshire.

MORSON — FOWLER. — At Loughton, Essex, on October 19, Geoffrey Thomas Morson, M.C. (Thomas Morson & Son, Ltd., 47 Gray's Inn Road, London, W.C.1), to Bridget Mary Fowler, Loughton.

THOMPSON—DEWAR. — At Warrington on October 14, John Hilton Thompson, M.P.S., 84 High Street, Shaw, Lancs, to Ida Marjory Dewar, Warrington. During the war, the bride served as Fighter Direction Officer with the W.R.N.S., and the bridegroom, who is now with Thompson & Capper (Wholesale), Ltd., Liverpool, as Lieutenant Observer in the Royal Navy (Fleet Air Arm).

DEATHS

DAVIES.—On October 13, Mr. John Davies, Ph.C., 18 Stepney Street, Llanelly, aged seventy-four. Mr. Davies qualified as a chemist and druggist in 1893,, and passed the Pharmaceutical Chemist examination the following year.

FERGUSON.—Reported missing on September 12, 1942, and now officially presumed killed, Mr. William Jeffrey Ferguson, M.P.S., 69 Standish Gate, Wigan, Lancs. Mr. Ferguson qualified in 1940.

FRANKLIN.—Suddenly, on October 17, Mr. J. H. Franklin, Ph.C., 42 Broom Lane, Higher Broughton, Manchester, aged eighty-two. Mr. Franklin is survived by his widow and two married daughters. Mr. T. Miller (secretary, Manchester Pharmaceutical Association) writes:—In the passing of Mr. Franklin, Manchester pharmacy has suffered a grievous loss, and one that can never be replaced. For many years Mr. Franklin has been a central figure at all meetings and socials of the local Branch and Association. He has filled the office of president of the Association and was for a term of years chairman of the Branch of the Society and president of the Manchester and Distr Chemists' Golfing Society. His services chairman of the Conference in 1931, a member of the Pharmacopœia and Cod Committees, and of the Poisons Board, ha been mentioned elsewhere. His services pharmacy, locally and nationally, c hardly be over-estimated. He was meticul in his attendance at meetings and alw had his contribution to make. He was friend and wise counsellor of every ph macist in the area. Although such an o standing figure in our organisations, he v approachable by all, and he would alw give time and thought to help any colleag He had a lovable personality, a genius friendship, a high sense of honour a loyalty to his *confrères*. He was a frequ contributor to the proceedings of the As ciation and Branch on questions of practi pharmacy, a new Pharmacopœia or Cod and on the various Acts of Parliam affecting pharmacy. In his outlook he v an idealist, with a vision of what pharma should be—an essential and profession part of the health service of the commun at large.

The funeral service took place at Ma chester Crematorium on October 21. Jan Woolley, Sons & Co., Ltd., were represent by Mr. G. S. Woolley, Colonel S. Wats (who also represented the Wholesale Dr Trade Association), Messrs. A. Maude, Boardman, Faulkner, and many of t staff from Victoria Bridge and the Knowsl Street works. Pharmacy was represent by Mr. H. Steinman (chairman, Natio Pharmaceutical Union Executive), Profes H. Brindle (chairman of the local Bran of the Pharmaceutical Society), Messrs. J. Walmsley (president of the Associatio W. Wilkinson, J.P., J. Tomlinson (cha man, N.P.U. Branch), W. E. Phillipson a J.V. Lloyd (Guild of Public Pharmacist T. Miller (secretary, Association a Branch), S. D. Andrew, captain, Chemis Golfing Society), Alderman R. G. Edwar Messrs. E. Berry, S. M. Bostock, V. C mack, E. Cronin, C. Hands, H. Hawor E. Walters, C. V. Wanless, and many oth pharmaceutical colleagues and represen tives of the Old Manchester Golf Club, wi which Mr. Franklin was associated for ma years.

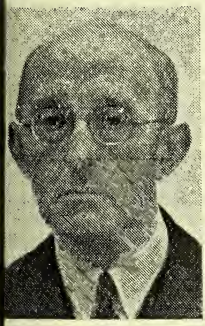
GIBSON.—On October 17, Mr. Harc Hulbert Gibson, chairman and managi director of Robert Gibson & Sons, Ltd. M Gibson had spent over forty years in t service of the company in succession to h father and to his grandfather, who found the business.

PERSONALITIES

Mr. Hugh N. Linstead, O.B.E., M.P. (Secretary of the Pharmaceutical Society), addressed the Publicity Club in London on October 21 on "How the National Health Services may affect Proprietary Remedies."

Mr. William Henry Boyd, a newly elected member of the Council of the Pharmaceutical Society of Northern Ireland, qualified in 1933. He served his apprenticeship with Mr. J. Kilpatrick (R. A. Austin), Diamond, Londonderry, and was afterwards with Mr. John Wellwood, Grosvenor Road, Belfast, I. W. Nicholl, Ltd., High Street, Belfast, and Mr. Joseph Wellwood, Belfast. He is now managing director of the Oriel Pharmacy, Ltd., Ormeau Road, Belfast. He is a foundation member and past-chairman of the Associates' Section, and has served on various committees in connexion with the drug trade.

Mr. P. R. W. Shinner, who headed the poll in the recent election to the Council of the Pharmaceutical Society of Northern Ireland (see *C. & D.*, October 19, p. 483), began his pharmaceutical apprenticeship in 1909 and took first place in Ireland when he qualified in May 1918. Establishing his own business in Belfast in 1929, he became identified with the Ulster Retail Drug Trade Association. In 1930 he was elected to the Executive Committee of the Ulster Chemists' Association, the successor to the U.R.D.T.A., and in this he has taken an active interest. He became its president in 1942 and was paid the signal honour of being reappointed to the chair the following year. Mr. Shinner is in business at 565 Antrim Road, Belfast.



Mr. Herbert W. Gamble, one of the newly elected members of Council of the Pharmaceutical Society of Northern Ireland, qualified in 1932. His apprenticeship was served with Mr. E. A. Richey, Newtownards Road, Belfast, and he was subsequently with Messrs. H. F. Moore, Royal Avenue, Belfast, A. Wilson, Albertbridge Road, Belfast, W. J. Thornton, Newcastle, and the Cregagh Pharmacy, Woodstock Road, Belfast. He is at present manager of Roberts' Pharmacy, Shankill Road, Belfast. Mr. Gamble was a foundation member and the first chairman of the Associates' Section of the Ulster Chemists' Association, and is at present secretary of the Section. He has taken an active interest in pharmaceutical affairs and has wide experience of committee work.

Mrs. E. M. Sherwood, this year's chairman of the Reading and Berks Branch National Pharmaceutical Union qualified in 1932, after serving an apprenticeship with her father, Mr. H. G. Rix, M.P.S., 30 Church Street, Caversham, Reading, and studying at the London College of Pharmacy. She took up locum work for experience between 1932 and 1935, then settled down as qualified assistant to her father. On his retirement in 1937 she took over the business, which she still conducts. During the war she was a member of the local Pharmaceutical war committee. A member of the pharmaceutical services subcommittee, she was N.P.U. delegate for Reading at the 1944 N.P.U. Conference. She has been elected delegate to the forthcoming N.P.U. conference on October 31. She has five children.

HEALTH BULLETIN TO PHARMACISTS

BELOW are abstracts from the twelfth Ministry of Health Bulletin to pharmacists, issued by arrangement with the Pharmaceutical Society.

Coughs and Cough Mixtures

By J. Balfour Kirk, C.M.G., F.R.C.P.

WHILE the chronic cough is gradually coming to be recognised by people as a sign of serious respiratory disease, and as something which merits a visit to the doctor, there is still far too great a tendency to imagine that the rapid removal of any cough by medication based on sedatives is a desirable objective in itself.

Coughing is a reflex action designed to assist in maintaining the efficiency of the respiration by clearing the lungs and respiratory passages and is governed by the vagus nerve, a cranial nerve (which is also the channel of impulses governing the heart and much of the digestive apparatus). It used to be thought that irritation of any part of the vagus nerve would produce cough, but as certain forms of irritation of the abdominal branches of the vagus nerve such as that caused by surgical operation on the stomach, or cancer of the stomach, do not produce cough, this hypothesis is not the whole explanation of the reflex.

Sensory areas which, when irritated, give rise to reflexes, have been termed "signal surfaces," and those of the coughing reflex lie almost entirely in the respiratory tract and include the mucous membrane of the larynx, the whole tracheal surface, especially at its bifurcation, the pleural surfaces of the lung and chest, and, in some persons, the skin of the external auditory meatus. The irritation necessary to provoke coughing may be that of chronic inflammation of these surfaces, pressure, the presence of a foreign body or even excessive quantities of mucus, the prick of a needle in surgery, or the inhalation of acrid or irritant fumes in small quantity. As a reflex act coughing tends to become habitual, and some persons of nervous temperament habitually cough when about to speak on the telephone, or when they come into a strange room. A morning cough may persist as a habit in some persons for a considerable time after the condition causing it has been removed. Children who have suffered from whooping cough frequently cough immoderately each time they catch cold afterwards, and the cough has the paroxysmal character of that of whooping cou except that the "whoop" seldom occu

CAUSES IN THE UPPER RESPIRATOI TRACT.—The commonest causes of cou operating in this area are inflam tonsils and adenoids, inflamed or lo uvula, pharyngitis and laryngitis. T cough of pharyngitis occurs in t morning on waking up—it is the we known "smoker's cough"—and is wor after a late night, especially that of festive kind. The cough of laryngitis hard, dry and may be very violer occurring in rather prolonged bouts. severity is often out of proportion to t general constitutional disturbance, b hoarseness of the voice, or complete loss voice may give the clue to the cause.

CAUSES IN THE THORAX.—Here the cou may reveal deep-seated organic disease the chest and a useful distinction can made as to whether the cough is "wet" "dry," i.e., whether it results in the brin ing up of mucus or other secretion or no Acute conditions like acute bronchitis acute pleurisy give rise to a "dry" coug as does pressure on the trachea or bronc such as might be experienced from enlarge mediastinal glands, mediastinal ne growths, or an aneurysm of one of t larger mediastinal vessels, e.g., the aort The early stages of tuberculosis of the lur are frequently associated with a heightene reflex excitability of the vagus nerve, resul ing in a persistent dry cough; the same m be said of the early stage of cancer lung.

The Wet Cough

When there is outpouring of mucus alo the respiratory tract the cough "loosens that is, it loses its hard, dry character an becomes easier; the same thing happe when a tuberculous process gives rise destruction of lung tissue. The wet coug is therefore a feature of chronic bronchiti advancing tuberculosis, emphysema, fibros of the lung and advanced bronchiestasi In tropical practice the rupture of a liv abscess through the diaphragm may resu in bouts of paroxysmal coughing in effor to discharge the pus through the respirato tract.

Patients whose hearts are beginning t fail sometimes develop a cough when the undertake any physical effort. This coug is a hard, dry cough, and it is a signal th the heart is protesting against the extr work thrown upon it, and generally di appears after the patient has rested for

e. It generally appears at an earlier e than the breathlessness which accom- ies this condition. The eruption of h in infants and young children gener- makes their nervous system rather more table than usual and may cause cough-

Patients suffering from hysteria may elop an alarming cough designed to act to the patient solicitous attention. The request of a patient for "something relieve his cough" raises, therefore, a nificant question. The mere suppression the cough by the administration of a gh mixture or medication which does take into account the cause of the gh, may be disastrous for the patient and those living or working close to him. all but a few cases the pharmacist uld be wise, when making the sale, to vise consultation with the patient's doc- and he should invariably do so when the gh persists in spite of the treatment.

Therapy of the Menopause

R. W. Johnstone, C.B.E., M.D., R.C.S.Ed., Professor-Emeritus of Obste- cs and Gynæcology, University of Edin- rgh, and T. N. MacGregor, M.D., R.C.S.Ed., Assistant Obstetrician and næcologist, Royal Infirmary, Edinburgh.

OST women in their early forties begin to ead the approach of the menopause or hange of life," but for one woman who ffers at this period, ten pass through it thout any noticeable upset of bodily or ental health. Up to a point the dread is tural enough, but for many it goes far yond this; they fear that the end of the productive period will not only end their arital happiness, but also that they will ow fat and shapeless, or that they will come scraggy and masculine with hair on e face! Many anticipate a nightmare riod of physical and mental discomfort, d a few may even secretly fear that they ill become insane. This is often due to lack education on bodily functions, and such knowledge" as these women have is ten derived from idle chatter over the acups, or from "old wives' tales".

emale Sex Physiology

In the last twenty years a great deal of ght has been shed upon the whole subject female sex physiology. We now know at menstruation is governed by a complex nd delicate hormonal mechanism. Why is mechanism begins to function only at e age of puberty and why it ceases at the enopause are problems not yet solved. But e do know that at the latter period the ovaries cease to be capable of responding to the stimulus of the gonadotrophic hormones, and therefore cease to secrete œstrogenic hormone.

This cessation of ovarian function may be abrupt, but it is more often a gradual process; the stoppage of the monthly periods may correspondingly be abrupt, but is more often a gradual and rather faltering process. Generally, women in whom it is gradual have few, if any, untoward symptoms, while those in whom it is abrupt are liable to experience discomfort, and symptoms experienced include "hot flushes," which in some cases are immediately followed by "cold sweats"; vague feelings of depression and apprehension, headache, giddiness, palpitations, numbness and tingling, itching (especially of the genital area) and flatulent indigestion. Administration of œstrogenic hormone, either in the natural organic form (œstradiol benzoate) or as one of the synthetic œstrogens (stilbœstrol, hexœstrol, dienœstrol, etc.) can control the flushes and mitigate some of the other secondary symptoms. A simple sedative such as half a grain of phenobarbitone night and morning is frequently effective.

Risks of Œstrogenic Drugs

Pharmacists should bear in mind that the indiscriminate use of the œstrogenic drugs is not devoid of risk to the patient. Risks may be considered under four heads:

1. The œstrogenic drugs are closely related to carcinogenic substances, and administration in large doses over a long period can produce cancer in lower laboratory animals. There is no evidence of such a result in the human.

2. The menopausal woman's organism must as far as possible be allowed to recover hormonal equilibrium for itself, and therefore œstrogenic preparations should never be administered before the monthly periods have ceased completely. The menstrual cycle may be very irregular at this time, but it is important to realise that the menstrual irregularity may *not* be due to the menopause but to a cancer of the womb. The patient may even complain of hot flushes, and the administration of œstrogenic hormone will relieve them and may arrest the bleeding, resulting in an early cancer of the womb being overlooked.

3. The administration of the œstrogens to post-menopausal women frequently causes uterine hæmorrhage.

4. Synthetic œstrogens, particularly stilbœstrol, often cause toxic symptoms—nausea, vomiting and gastro-intestinal distress—which in some cases are so severe as

to make continuation of the therapy impossible. The natural œstrogens are not associated with any toxic symptoms, but to be effective they must be given by intramuscular injection. Success has also been claimed for vitamin E.

Atropine and Lachesine

By Beatrix B. Law, M.D., D.O. (Oxon.)

ONE of the bugbears of ophthalmic practice is the development of atropine irritation or eczema, an allergic reaction which begins quite suddenly, generally in older people, and most often in cases where atropine drops have been applied to the eye for some considerable time. It is a purely local development, arising from a chemical complication between the drug and the sebaceous secretion, not only of the conjunctiva but also of the skin. A red follicular catarrhal condition of the conjunctiva arises, associated with swelling and eczema of the lids. As soon as the drug is stopped, the condition subsides, and immediately it is recommenced the conditions recur.

It has been found that if the barely minimal dose of atropine can be given, the eczema can sometimes be kept within bounds, and this minute dosage can best be achieved by the use of gelatin lamellæ. Even 1/250 grain of atropine given in a lamella can be halved or even quartered by the ophthalmic nurse, and the full dose, carefuly subdivided, can be spread over the twenty-four hours. Up to the beginning of 1946 this was the best treatment available.

Now comes the good news that a substitute for atropine has been synthesised. True, its effects can be reckoned in hours rather than in days, and already a patient or two has been discovered with eczema-developing propensities to it. The discovery is the result of research instituted by the Ministry of Supply during 1942-43. Chemically the new compound is benzilyloxyethyldimethylethylammonium chloride, shortened to "E3" and now given a third name lachesine from λαχεσις, another of the Fates, one of whom ατροπος gave her name to atropine. The Ministry has arranged for the drug to be distributed by Whiffen & Sons, Ltd., Carnforth Road, London, S.W.6. It is used as a 1 per cent. solution.

B.C.G.: The Position in Britain

IN 1908 two French bacteriologists, Calmette and Guérin, announced that by cultivation of a bovine tubercle bacillus on special media they had caused it rapidly to lose virulence for the common laboratory animals. Continuous work along these lines resulted in the production of a strain whi was incapable of producing fatal tube culosis in any of the laboratory anima and by 1920 it was declared to be harmle to man. To this new avirulent strain w given the name B.C.G., a contraction f Bacille Calmette-Guérin.

Calmette had formed the opinion th vaccines consisting of dead tubercle baci had little or no power to induce immuni to tuberculosis in laboratory animals. H experimented with vaccines made of tl living B.C.G. and claimed that such a va cine, if fed to young guinea pigs within tl first few days of their birth, mildly infecte them and then produced an immunity subsequent tuberculosis. This work forme the basis of his early efforts to combat tube culosis in man by administering B.C.G. b the mouth to new-born infants in tube culous families, and isolating them fo several months after vaccination.

The work of Calmette created grea interest and investigations were made i various countries to test the validity of h claims. Controversy arose, but importar developments took place. Oral vaccinatio was superseded by subcutaneous, which wa in its turn replaced by the percutaneou method analogous to the modern method employed in smallpox vaccination. Thi latest development has eliminated the dis advantage of the subcutaneous method which sometimes produced cold abscesse which took a considerable time to heal.

For some time after the announcemen influential British workers were not satisfie with the evidence presented in support o the efficacy of B.C.G. vaccination. Recen satisfactorily controlled work upon selecte groups has, however, demonstrated tha B.C.G. has a considerable power to induce immunity and it is now thought that a further study of its immunising powe should be made in this country.

B.C.G. vaccine consists of a suspension o living B.C.G., and its efficacy depends upon the number of living organisms contained in the suspension at the time of vaccination. It is proposed to make arrangements fo the production of the vaccine in this country under the auspices of the Ministry of Health.

The Bulletin also contained descriptions of the work of the Central Council for the Care of Cripples, 34 Eccleston Square, London, S.W.1, and of the National Association of Girls' Clubs, and Mixed Clubs, 30 Devonshire Street, London, W.1.

STREPTOMYCIN BY SURFACE CULTURE

s with penicillin, though for different reasons, the first commercial oduction of streptomycin in this country is by the surface-culture ethod. Similarities with, and differences from, the penicillin technique, formerly operated at Nottingham by Boots, Ltd., are outlined below

BATCH No. 1 of the first commercially produced streptomycin was in its ultimate stage of purification en a *C. & D.* writer visited the Daleside oad, Nottingham, fermentarium of Boots re Drug Co., Ltd., on October 4. His it coincided with the completion of a pross set in train a fortnight earlier, as ntioned at a Press conference on October (see *C. & D.*, October 5, p. 435). Here, a 10-gall. glazed stoneware vessel, a milky hite suspension of the drug in methyl tohol was having its *p*H adjusted prior to e final precipitation. Product of 8,000 art-size milk bottles of culture medium, it as expected to yield about 150 to 160 gm. the final powder, at a purity of 200 to 250 icrogm. per mgm. (about 25 per cent. the ntent of theoretically pure material). At is standard, the product is considered edically satisfactory, devoid of the subances that are believed responsible for me of the toxic effects that have been reorted in the medical Press, yet producible an economically attractive cost. To rive after higher percentage content at the resent time would add to production costs ithout appreciable medical advantage.

reparing the Medium

The process for preparing streptomycin, arried out in plant constructed and fornerly used for the surface-culture producon of penicillin, is essentially similar to he original, though with important differnces. Culture medium is prepared in openopped, enamel-lined mixers of 450-gall. apacity from a mixture of such materials s meat extract, glucose and inorganic salts ferrous sulphate, magnesium sulphate, etc.). When mixed, and after adjustment to *p*H7, he medium is transferred to an electric illing machine, by which it is fed, in quanities of 200 to 250 c.c., into milk bottles. rriving from a bottle-washing machine of 5,000 per hour capacity. In this the bottles have been pre-cleansed by hot water, folowed by a final blast of steam. They are halted in batches of eight at the filling machine. Loaded into metal crates, the full bottles pass along by conveyor belt to a battery of six double-ended sterilising ovens, into which they are loaded, 960 bottles in each steriliser at each loading. The duration of their stay is one-and-a-half hours, thirty minutes of which constitutes the actual period in the sterilising cylinder under a pressure of 12 lb. per sq. in.

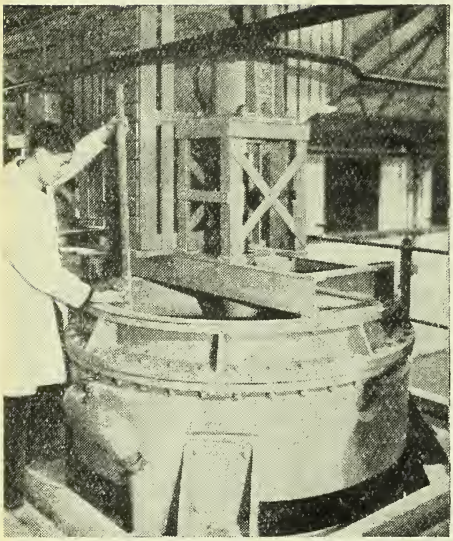
At the time of the writer's visit the total of bottles of streptomycin culture-medium passing through the sterilisers was 10,000 daily; an increase to 20,000 daily was the aim to be achieved within a few weeks. The sterility check at this stage is an indirect one. Out of each loading a few bottles are kept uninoculated with the *Streptomyces* ferment. Passing through the incubators with the remainder, they are present to reveal at once the development of any foreign organism.

Method of Incubation

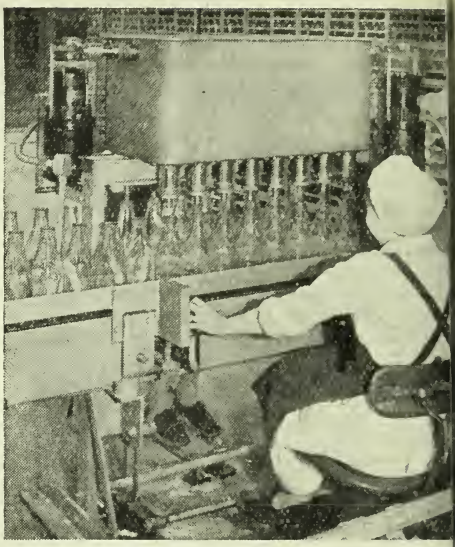
A waiting period on cooling racks leaves the bottles of medium ready for entry into one of the two atmosphere-conditioned incubating rooms. Personnel admitted to these rooms are required to put on sterile clothing and overshoes, and a positive pressure of sterile atmosphere is maintained within. The further precaution is taken of spraying the room with formalin to prevent entry of bacteria.

No visitor can fail to be impressed by the great height and capacity of these rooms, each with accommodation for 180,000 bottles (equivalent to half an acre of mould). Racked at a slight angle from the horizontal, the bottles present a maximum surface of liquid for development of the mould. Masked girls with spray guns introduce into each bottle a charge of suspension of the spores, and after an incubation period of thirteen days the nutrient material of the medium has become fully metabolised, and the white or faintly grey mould has excreted its full yield of streytomycin. The temperature in the incubation rooms is 82°F., and for this reason no girl works in them for longer than a four-hour shift. On the thirteenth day the mould is inactivated by spraying formalin into each bottle, a precaution taken to preclude the risk of actinomycosis in the workers.

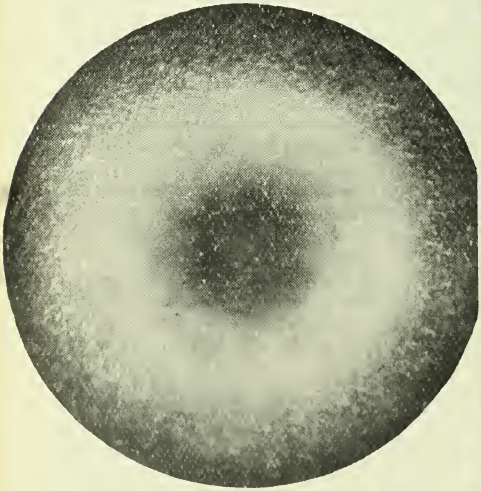
Incubation complete, the formalin-treated bottles of crude streptomycin are wheeled back into the main area, where



1. The nutrient materials for the culture medium are measured into open-topped vessels and mixed.



2. The medium, in uniform amo is machine-fed into quart-size m bottles, eight at a time.



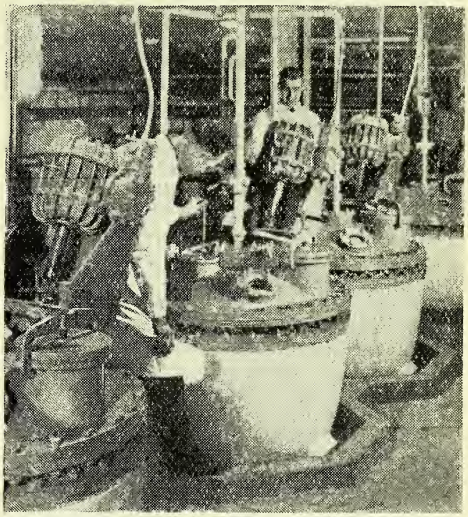
5. The mould develops as a greyish-white mycelium, shown above as photographed under the low-power microscope (*x* 20).

6. The first batch of streptom be commercially produc Britain passes through a fina

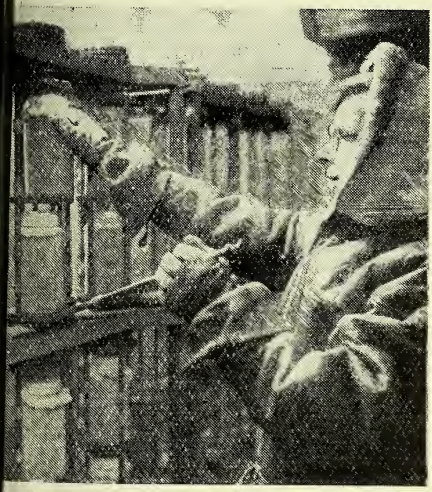
Illustrations are from the Daleside Road, Nottingham, works of Boots Pure Drug Co., Ltd.

STAGES IN THE PRODUCTION OF TREPTOMYCIN

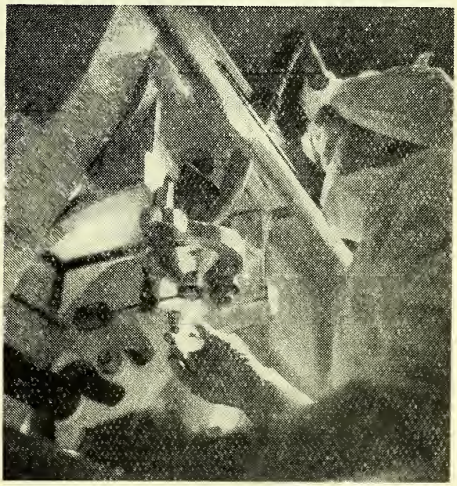
3. In an atmosphere - conditioned room, masked girls inject into each bottle an inoculation of spores.



4. During thirteen days' incubation the antibiotic is excreted. Extraction is partly in brine-cooled vessels



7. Frozen at —45°C., the material is transferred to desiccators by workers in airmen's clothing.



8. The pure, dry powder is measured aseptically into the vials in which it is issued for use.

they are emptied into bins. From these the mycelium is roughly filtered out and the crude filtrate—a dark brown liquid—pumped away into refrigerated vessels in the processing room. By different routes the bottles are taken to a washing room and the discarded mycelium to the incinerators.

Extraction Stages

While still in the refrigerated tanks, the filtrate is adjusted to an acid *p*H and clarified with charcoal. Passage through a filter press removes the charcoal, and the liquor is passed back to the cooling vessels, where it is neutralised, and the streptomycin itself adsorbed on to charcoal. At the next stage it is eluted by circulating acid alcohol in the vessel. Again neutralised, it is put through an evaporator, and the alcohol recovered. Streptomycin, from the aqueous concentrate, is precipitated with acetone, repurified by solution in alcohol and precipitated with ether, converted into an aqueous solution, and its *p*H adjusted almost to neutrality. Finally it is filtered sterile, and freeze-dried.

For the freeze-drying technique, which will be applied in the works to streptomycin as to penicillin, the material is dissolved in sterile water, filtered sterile, and filled aseptically into Kilner jars closed by covering with two layers of lint. Each 3-lb. jar takes about 300 c.c. of solution. The desiccators into which the jars are later to be packed accommodate 180 each. Into two jars from each 180 a thermocouple is fitted, to indicate to the operator outside what is the internal temperature. First, however, the jars are put into a room at —45°C. and spun on a vertical axis. By this means the antibiotic is spread as a frozen cylinder round the glass. The jars pass into store at the same temperature and are transferred, when the time comes, into tin canisters in the desiccator by operators wearing lined "flying" suits. Apiezon wax (a proprietary preparation having an extremely low vapour pressure), is applied to the joints, and the desiccator evacuated to 0.2 mm. pressure. Raising the temperature by a controlled amount volatilises the solid ice into vapour, and after twenty-four hours the residue is a finely powdered solid containing 3 per cent. only of water. It is collected aseptically from all the jars into one container, and sampled for assay by the ring-plate test (test organism, *E. coli*).

Assuming that the assay is satisfactory and that the sterility, pharmaceutical and analytical tests are met, the streptomycin passes to the company's fine chemical works Island Street, Nottingham, to be pack under conditions of sterility into containe similar to those adopted for penicill powder. It is understood that the Minist of Supply will take over the whole of t streptomycin produced.

As already announced, plans are in ha to replace the surface-culture process deep culture as and when the equipme can be installed. Much of the costly pla at present in use will remain (a deep-cultu pilot plant has been in operation for ma months for experimental purposes) and t additional £70,000 allocated will bring t total investment in the process to a lev that leaves no doubt of the company's i tention to bring down costs. Interest nc turns to the outcome of the clinical tests.

RESEARCH AND THE SMALLER FIRMS

In an address given by Sir Edwa Appleton, F.R.S. (secretary of the D partment of Scientific and Industri Research) at a session of the Manchest Joint Research Council's Conference c "Research and the Smaller Firm," t speaker said that the problems in who solution research could play a promine part fell into three groups. First, "troub shooting," or the solution of problems ar ing in the maintenance of quality ar efficiency of daily production; secondly, t gradual improvement in the quality of t product, or the gradual raising of produ tion efficiency; and thirdly, the mo revolutionary changes involving the intr duction of new ideas and new products.

"There are three main types of organis tion in which research of value to the sma firm can be carried out:— First, the indu trial Research Assocations, set up und the auspices of D.S.I.R. for fostering c operative research; second, Governmer research institutions such as the Nation Physical Laboratory, the Fuel Researc Station, and other Laboratories of D.S.I.R. and third, universities and larger technic colleges. To this list we should add t assistance which the research departmen of larger firms give to smaller firms wishin to make use of their products, and firm which carry out research or developmer work on behalf of clients."

Sir Edward attached great importanc to the prosecution of fundamental researcl by the use of the machinery for co operative research developed, for exampl that of the Industrial Research Associatior

NORTH BRITISH EXECUTIVE

MEETING of the Executive of the North tish Branch of the Pharmaceutical ciety was held in Edinburgh on Octo- 9. Mr. Alexander Murray, who was the chair, welcomed Mr. G. R. Knox- wer (president of the Society).

esident's Visit

THE PRESIDENT said it was a privilege to able to attend an Executive meeting. It uld be in the best interests of the craft invite the president to attend such a eting at least once a year. He had been Edinburgh for several days and had ended the examinations. He was more an satisfied with the arrangements made. e Charter was under discussion and a aft memorandum had been prepared for nsideration. Polish pharmacists might to be included in the British register, ich would present a serious problem. ere were other problems and a close asso- tion between the Council and the North itish Executive was most desirable. Pay- a tribute to the vice-president (Mrs. ine), who had been born in Edinburgh, said that on her recent visit she had en very impressed, and he himself was re than delighted by the welcome he d received. Whatever success he might hieve was due largely to the standard by Major Peck and Mr. Guthrie.

mination of Examiners

A list of names selected by the Nomina- n Committee was approved to be recom- nded to the Council for appointment as mbers of the Board of Examiners for otland for 1947. It was reported that twenty-seven entries, the Umney Prize d been awarded to Miss E. P. Borley, dinburgh. It was agreed to send her a tter of congratulation.

A letter from Mr. Plowright regarding ncessions to ex-Service men and women, ated that the Education Committee had reed that a refer in one subject might granted by the Boards of Examiners to ndidates who had been given exemption one or more subjects under the general ncessions to ex-Service men and women.

THE RESIDENT SECRETARY reported that e inaugural sessional address would be elivered on November 22 by Professor A. E. Crew, M.D., Ph.D., F.R.S. (of dinburgh University) on "The Measure- ent of the Health of a Population."

It was reported that Mr. David McKid- ie, 16 Bank Street, Kirriemuir, had been ominated as divisional secretary for the Forfar district of Angus County in place of Mr. Macfarlane, who had retired.

Pharmaceutical War Committee

THE RESIDENT SECRETARY reported that a letter had been received from the Department of Health, suggesting that the Scottish Central Pharmaceutical War Committee should officially be wound up on September 30. It was agreed, however, to hold a final meeting of the Committee after the London meeting on October 14. THE RESIDENT SECRETARY said that in London the War Committee was definitely closing down but had arranged that any matters arising would be dealt with by the Society.

EXAMINATION RESULTS

THE following satisfied the examiners in the Chemist and Druggist Qualifying examination of the Pharmaceutical Society held in Scotland in October:—

Brinnand, Alan, Preston
Brown, Leo, Leeds
Bryce, John, Grangemouth
Buchan, Peter Taylor, London
Conway, Barbara, Stourbridge
Cottingham, Eric, Grimsby
Davison, Mary Julia, Sunderland
Goodfellow, Minnie, South Shields
Grace, Eileen Hannah, Annitsford
Griffiths, Hugh, Liverpool
Hall, Joyce Mary, Halifax
Hancock, John Kenneth, Wigan
Harrison, Dorothy Margaret, Driffield
Kelley, Norman Wilson, Bradford
Livingstone, Betty Goldie, Leeds
Lomas, Raymond, Liverpool
McGavin, William, Glasgow
McGee, Alexander, Newcastle-on-Tyne
McIntosh, Alexander Forsyth, Falkirk
Mann, Dorothy, Prudhoe
Martin, Nancy Elizabeth, Coalville
Moffat, Thomas Ingram, Kendal
Munro, Donald Landells, Glasgow
Murchie, Zaidee, Liverpool
Nisbet, Emma Grace Christina, Leith,
Pearce, Edith Marjorie, Brierley Hill
Postlethwaite, Mildred, Lytham
Ramsay, Robert Arthur, Oldmeldrum
Shaw, Derick, Wakefield
Simons, Jack, London
Stokoe, Thomas, Billingham
Stringfellow, Elizabeth Mary, Wigan
Temple, Janet Nichol Black, Edinburgh
Thomas, Emlyn A., Blaenau Festiniog
Watts, Edward Edgar, Huddersfield
Whinfield, Percy, Newcastle-on-Tyne
Williams, Pamela G., Newcastle-on-Tyne

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VANDRE LTD. GLASGOW C.2

INFORMATION WANTED

Information with respect to suppliers of th following items would be appreciated:

Queen Bess hair curlers. Farulgin tablets.
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THE
CHEMIST AND DRUGGIST
ESTABLISHED 1859
RETAILER — WHOLESALER — MANUFACTURER

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ficial organ of The Pharmaceutical ciety of Ireland, The Pharmaceutical ciety of Northern Ireland, The Chemists' d Druggists' Society of Ireland and of her Chemists' Societies in the Empire.

L. CXLVI OCTOBER 26, 1946 NO. 3481

A Question of Interpretation

HE information that the Minister of alth has authorised the setting up of a Drug Requirements Advisory Committee" ". & D., October 12, p. 459), which will ovide the Minister with "information as to ose drugs considered to be necessary for e health of the community," is apparently ken in some quarters to be an indication at the war-time partnership of the Minis- es of Health and Supply on the control drug imports will be continued for an definite period. It is thought in the same uarters that the recent recommendations the Board of Trade in respect of certain rugs (e.g., dragon's blood), show a regret- ble lack of co-ordination between the overnment departments concerned. For ur part, we feel that the sooner unnecessary ontrols are removed, the better. No one ould deny the right of the Minister of lealth, in conjunction with representatives f the medical and pharmaceutical profes- ions, to determine what drugs are essential n the practice of medicine, and for certain odies, such as the General Medical Council nd the Pharmaceutical Society to prescribe tandards for these drugs. Where a "non- essential" drug or, for that matter, any other commodity of secondary importance, emanates from countries which have a "hard" currency, i.e., those outside the sterling area, then control of importation nto this country may continue to be neces- sary in the public interest. In all other circumstances the question of primary sup- ply should be left in the hands of the mer- chants who are best qualified to import these commodities.

So long, indeed, as members of the medical profession are free to prescribe preparations of "non-essential" drugs, and do in fact prescribe them, the pharmacist must endeavour to meet the demand. Subject to the Limitation of Exchange Control, the drug merchant should similarly be free to import and sell. There are some "drugs" which, although they have long since lost any claims to be part of a "rational therapy," nevertheless have important uses outside medicine. The example of dragon's blood is a case in point. Sanguis draconis, B.P.C., is "sometimes used for colouring plasters," and was used in old pharmacy as a mild astringent; but how many pharmacists have seen the drug used for these purposes? The commodity is in good demand however, for colouring lacquers and varnishes and in the engraving trade. A further example is seen in sarsaparilla, B.P.C. At present it is fashionable to place this drug low in the scale of therapeutic values. Nevertheless it has certain other qualities which commend it not only to the pharmacist, who finds it an agreeable vehicle, but also to the manufacturers of "soft" drinks. Are merchants to be prevented from importing these and similar drugs because the D.R.A.C., on the basis of "no proved value" in medicine, lists them as "non-essential"? Further, it is suggested that, because no reason for including certain drugs in the British Pharmacopœia can be found, the entrepôt trade in these commodities ought not to be permitted. Is it intended to dictate standards of materia medica to other countries?

Round One to the Doctors

THE Minister of Health (Mr. Aneurin Bevan) has conceded to the British Medical Association negotiators a point which they regarded as a *sine qua non* to further discussions with the Minister. He has decided to implement at once the full recommendations of the Spens Committee in regard to remuneration to Insurance practitioners instead of raising the capitation fee, as an interim measure, to 12s. 6d. Mr. Bevan had previously given an undertaking to the doctors that he would adopt that part of the Spens report, and no doubt he might

have argued that they could trust him eventually to do so. On the other hand, it was known that the Minister was anxious to deal with the whole subject of medical practitioners' remuneration from the State as part of the larger ultimate question involved in their payment under the National Health Service Scheme. The medical practitioners no doubt felt, and probably with reason, that if they could secure that the present arrangements were put on a more satisfactory basis, they would be in a better position to negotiate terms under the new legislation.

It thus appears that they have won a tactical, if not a strategic victory. The dentists, meanwhile, are marshalling their forces. They have passed a resolution declining to accept National Health Insurance patients at the fees imposed by the Minister of National Insurance.

A Fall in Exports

THE peak figures for exports of British merchandise recorded for May and July of this year are not being maintained and must therefore be regarded as exceptional returns, much above the average for the nine months of the year. Some loss in the September returns (£74.7 millions), compared with August (£82.4 millions) may have resulted from the fact that September is one day shorter. But the fall in value cannot wholly be explained in this way. It is quite probable that late holidays may have caused a reduction in productivity during September, in which case higher figures may be expected for the remaining months of the year. A fairly substantial fall is recorded in imports, but the figure of £106.1 millions remains somewhat high.

Exports of "chemicals, drugs, dyes and colours," during September, were valued at £4,575,468, compared with £5,827,448 in August. For the nine months of the current year, exports of the chemicals group totalled £48.5 millions, compared with £16.7 millions for the corresponding period of 1938. A substantial fall in exports of drugs, medicines and medical preparations is noted for September (£839,100), compared with August (£1,095,504). The fall appears to be fairly general throughout all the territories to which these drugs are normally dispatched.

Trouble for Tenants in Scotland

A SCOTTISH correspondent informs us that pharmaceutical manufacturers and agents are among tenants involved in a serious situation which is developing in Scotland where businessmen of over fifty years' standing are finding themselves dismissed from their premises following the acquisition of blocks of buildings by outside financial interests. The fact that the situation could be duplicated in every town in Great Britain, and is, it is thought, actually taking place, makes the problem the more difficult. It must be stated immediately that the proceedings are entirely legal throughout, and that absolutely no criticism can be directed at the interested parties on legal or commercial grounds. That does not minimise the fact that the result of the quittance notices is in many instances acutely serious to the firms or companies involved. In Glasgow during October three large buildings were officially noted as being in progress of acquisition. In one, thirty tenants were instructed to quit by November 28. In another a warning was given that the twenty or so tenants must clear out some time next year. In the third the position is only developing. The tragic aspect of the situation, in each instance, is that the tenants could easily have bought the building co-operatively, and would have done so had they anticipated any such move.

In the instances quoted, the sites lie within the city railway and transport centres. It is a vital necessity to the firms concerned that they should be in the area affected, since otherwise they are too far from the heart of normal trading. Customers will not travel, say, a mile from the approved trading area to be loyal to an old supplier and inevitably the business goes to someone else able to remain in the centre.

Nor is the transfer easy. Business premises may be available in some instances although suitable shops are extremely few and far between. But costs are exorbitant, difficulties of conversion considerable and the distance from former locations excessive. The experience of these Scottish traders makes it a necessity for all in a similar position to take adequate steps to ensure the safety of their tenure.

CHEMISTS' FRIENDS ASSOCIATION

MEETING of the Council of the Chemists' iends Association was held on October 3, e president of the Association in the chair. meeting of the C.F. Standards Committee d been held on the previous day.

THE SECRETARY reported that the necesry two-thirds majority of the total memrship of the Association had signified eir approval of the proposed change of me from Chemists' Friends Association to e Chemists' Federation. It was resolved instruct the secretary to communicate is fact to the registrar of trade unions, hose approval was necessary before the nange could be made.

THE SECRETARY reported that up to the me of the meeting over 1,100 C.F. disay stands had been sold.

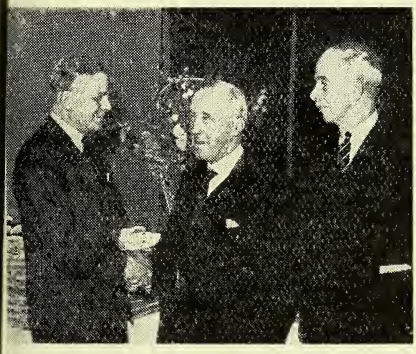
Four applications for manufacturer embership of the C.F.A. were considered; wo were deferred for further consideration enable various matters concerning claims ade, and formulas of some of the products fered to be taken up with the manufacrers concerned, and one application was efused. An application by Calfos, Ltd., Imperial House, Kingsway, London, W.C.2, for the inclusion of Calfos natural mineral tablets was accepted. Three applications for wholesaler membership of the C.F.A. were considered and refused.

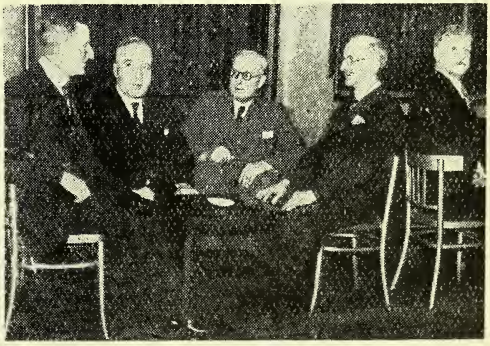
The National News-Letter Report No. 7, "Patent Medicines—An Indictment" by Mr. Hugh Linstead, M.P., was received and discussed. The C.F. Council, whilst approving in principle the report, noted with regret that only a portion of the rules laid down by the C.F. Standards Committee had been quoted, thus failing to reveal the comprehensive work that had been done by the Association.

A letter was received from the secretary of the Proprietary Articles Trade Association inviting the C.F. Association to nominate representatives to attend a deputation to the Central Price Regulation Committee. The Committee did not approve, generally, increases in the rate of retail discounts on proprietary preparations included in the P.A.T.A. list, although no increase to the public was involved. Representatives were appointed to attend the deputation.

150TH ANNIVERSARY CELEBRATION

IGHT hundred people, members of the staff, eir wives or husbands, were the guests of ames Woolley, Sons & Co., Ltd., manuacturing chemists, Victoria Bridge, Manhester, 3, at its 150th anniversary celebraion in Manchester on October 3. A conert and dancing provided entertainment rom 7 p.m. to 1 a.m. Mr. G. S. Woolley (vice-chairman of the company), welcoming the guests, said that one of the reasons for the longevity of the company was undoubtedly the co-operation it had always had from its staff. Later, Mr. S. Watson (managing director) thanked the artistes. (The history and activities of the company were described in the *C. & D.*, 1944, I. 570.)





Left: Mr. G. S. Woolley (vice-chairman of James Woolley, Sons & Co., Ltd., Victoria Bridge, Manchester, 3), congratulating Mr. G. H. Flynn on his fifty-three years' service with the company. Mr. Flynn, who retired on September 28, had been the company's buyer for forty years. At right is Mr. S. Watson (managing director). *Right:* A group of recently retired members of the staff, each of whom had completed fifty years or more with the company.

INTERNATIONAL DANGEROUS DRUGS CONTRO

THE sessions at the London office of the United Nations of the two administrative bodies which operate the international control of trade and manufacture of dangerous drugs have just been concluded. Both these bodies have now been attached to the United Nations. The Drug Supervisory Body met from October 8 to October 14 under the presidency of Sir Malcolm Delevingne (United Kingdom). The following members were present: Mr. Herbert L. May (United States), Professor J. Bougault (France), and Professor G. Timbal (Belgium). Estimates of their requirements in 1947 were considered for all countries in the world. In cases where any countries had not sent in estimates, these were framed by the Supervisory Body itself. The annual statement of the Supervisory Body containing the world requirements for 1947 will be issued through the Secretary-General of the United Nations at the end of the year. The estimates in this statement form limits for export, import, manufacture and stocks, and constitute the basis on which the control by the other organisation—the Permanent Central Opium Board—is exercised.

Permanent Central Opium Board

The Permanent Central Opium Board met from October 15 to October 21 under the presidency of Mr. Herbert L. May (United States). The following members were present: Sir Atul Chatterjee, vice-president (India), Sir Malcolm Delevingne (United Kingdom), and M. J. H. Delgorge (Netherlands). Apart from carrying out its regular annual review of the information furnished by Governments in pursuance of the Treaties, and exercising its supervision of international trade, the Board examined certain special cases. Of Japan it was noted that the American military occupying authorities had established a very strict and satisfactory control. These authorities have discovered most flagrant violations by the former Japanese Government of the International Drug Treaties. Thus, for instance, in one small factory alone there had been manufactured in 1938-1939 more than the whole world's medical needs for one year of heroin. The situation in Germany as regards drug control is not at all satisfactory. Such control as exists is being exercised by separate authorities in the four zones. The Board and Supervisory Body consider it important that as soon as possible a central office should be created which will unify the control ar administrative arrangements for the enti German territory. The report of the Boa will be sent in due course to the Econom and Social Council of the United Nation and published. Questioned at a Press co ference on October 21, Mr. Herbert L. Ma (United States) referred to the complicate machinery for bringing under conventic the new drug pethidine.

"QUEEN ELIZABETH" DISPENSAR

THE medical equipment of the 83,673-to liner "Queen Elizabeth," which recent made her first transatlantic crossing as civilian ship includes a dispensary capab of giving a full pharmaceutical service 2,315 passengers and a crew of 1,200 1,300, a general hospital of thirty beds, an an isolation hospital. The dispensary situated adjacent to the operating theat and general hospital on the starboard sic of "C" Deck forward, on one of the worl ing alleyways of the ship. It is staffed b two petty-officer or warrant-officer dispe sers, one of whom is required to be a pha macist and the other is usually qualifie in physiotherapy, often possessing nav sick-berth training. The dispensary liberally supplied with drugs and serol gical preparations, the reserve stocks bein kept in a cold chamber. Penicillin inje tions and cream are made afloat, sterilis tion being carried out in the steam-heate autoclave, and in other equipment of th operating theatre. By arrangement wit the Ministry of Health the ship has on ca at Southampton up to ten million units c penicillin per month, while stores of bloo may be drawn from the Southampton bloo bank. The operating theatre equipmen is claimed to be comparable to that of teaching hospital ashore. In the medica inspection room, adjoining the dispensary an *x*-ray apparatus and dark room for de veloping radiographs are provided, togethe with installations for short-wave diathermy ultra-violet, infra-red, and radiant hea treatment. The general hospital is divide into passenger and crew's sections, eac with male and female and private wards The cots are built of chromium plate tubular steel, each having its own call bell lock-up bedside cupboard, reading lamp an waterproof draw curtain. Electric radia tors and fans keep the atmosphere comfort able and electric refrigerators are installe for storing special foods. An isolation hos pital is built in the after part of the ship.

OVERSEAS TRADE NEWS

Penicillin for U.N.R.R.A.—The U.S. t week sent one ton of penicillin to Rome air to be distributed by U.N.R.R.A. ing to a strike of American seamen it s decided to send the penicillin by air avoid its being held up in transit.

Germans to Have Penicillin.—Penicillin o be issued to German civilians and dis- ced persons in the British occupation e in cases where its use is considered ential for saving life, it was announced ently. The drug will be issued through e German health authorities.

Perfumes Stolen.—Perfumes valued at re than 500 million lire (about £560,000) re stolen from a factory at Gratz, near ce, states a Reuter report. The thieves e said to be members of an international ng, and it is believed that they have taken eir booty to Italy. French police officials ve joined the Italian police in investigat- g the crime.

Canada's Imports.—In the period of ven months ended July, 1946, the Dom- ion imported drugs and medicines to the lue, in round figures, of $5,906,000, com- ared with $5,605,000 for the correspond- g period in 1945. Values for perfumery, smetics and toilet preparations are: 1946, 343,000; 1945, $243,000. A marked in- ease was noted in soap import figures; in e same period of 1945 soap to the value f $97,000 was imported, compared with 493,000 this year.

Drug Surplus Windfall.—A considerable uantity of pharmaceuticals has recently een declared surplus to War Assets Cor- oration and has been released to the rade, states a Montreal report. Nearly 5 tons of boric acid was turned over to he domestic market. In addition quanti- ies of eucalyptus oil, quinine compounds, amphor and ephedrine which had been in hort supply during the war have now been old to the trade, as well as more than a on of sulphathiazole and sulphadiazine, nd more than six tons of gum tragacanth.

Japan's Foreign Trade. — The Far Eastern Commission, meeting in Washing- ton recently, agreed to set up an inter-Allied trade board to make recommendations to General MacArthur, Supreme Allied Com- mander in Japan, on how Japan can export and import goods to balance her economy. The board will be asked, states a Reuter report, for recommendations on: (1) The disposition of commodities available for export to Japan; (2) sources from which commodities can be imported; and (3) the best arrangements for facilitating exports and imports generally.

Argentina to Produce Gammexane.—Argentina is to produce large quantities of Gammexane, the insecticide which has al- ready been used to fight locusts in many parts of the world. Arrangements have been com- pleted between Industria Quimica Argen- tina "Duperial" S.A. and I.C.I. for the production of the insecticide at the former's plant at Sarandi, states a Buenos Aires re- port. The requisite materials will be sup- plied from Rosario by Electrocolor S.A., a company owned jointly by Duperial and the Argentine company La Celulosa. Duperial S.A. will be wholly responsible for the marketing of the product. Imperial Chemical Industries are stated to have put full technical information at the disposal of the Argentine concern. Gammexane will be used chiefly to fight the locusts which threaten Argentina's crops, but it is stated to have also proved extremely useful in combating blue tick, a livestock pest.

Hungarian Industries.—The Hungarian chemical industry, states a report from Budapest, is slowly recovering from the war. Output, which at the end of the war was 12 per cent. of the pre-war rate, increased to 25 per cent. at the beginning of this year and is now around 40 per cent. The quick- est recovery was made by the cosmetic industry which soon after the end of the war worked at pre-war capacity. Output from the pharmaceutical industry, on the other hand, is far below the pre-war level. All the larger pharmaceutical works were hit by bombs and the Chinoin Works, the largest Hungarian pharmaceutical plant, which before the war had a turnover of about £1,500,000, of which 60 per cent. was exported, now works only at 10 per cent. of pre-war rates. During the war the Germans increased production of the Chinoin Works by 100 per cent., of which a large percentage went to the Balkans. Once plants are rebuilt, the Hungarian pharmaceutical industry will have sufficient raw materials to resume production at the pre-war rate. The Chinoin, Wander and Richter works would have stocks for about two years. Further, many new pharmaceu- tical plants were founded during the war, among which is the Servita A.G., which is engaged in penicillin production. The com- pany is working with the Hungaria A.G.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantitie of standard quality. Prices of crude drugs and essential oils vary as to brand or grad

28 Essex St., W.C.2, October 23

THE brighter tone which was apparent last week has not appreciably changed. Inquiries for the export trade are maintained at a high level, and the freeing from export licensing control of a considerable number of PHARMACEUTICAL CHEMICALS will facilitate the trade in these commodities. In the home market prices are firmly held at previously quoted levels. The easier trend noted last week in CRUDE DRUGS has not been continued and prices this week have a generally firmer tendency.

Crude Drugs

BENZOIN in the home market continues to be a feature of the week's trade. The supply from Sumatra has not yet been landed and there is none available on the spot. Supplies of BUCHU are reported to be fair but business is slow to absorb the available material. CAMPHOR continues to attract a fair amount of business; a few more arrivals are expected. Supplies of CINNAMON quills are temporarily exhausted. Some Egyptian COLOCYNTH is available on the spot, but business is quiet. LOBELIA herb has sharply advanced in price. ORRIS may be had at slightly easier prices, but here again demand is not excessive. QUASSIA is quoted dearer on the spot.

Essential Oils

There have been no appreciable changes announced in the prices of ESSENTIAL OILS. LAVENDER continues to be quoted firmer on the spot. EUCALYPTUS OIL is in very short supply and further deliveries are not anticipated in the near future. It is understood that some OTTO OF ROSE, in excess of immediate home trade requirements, may be released for export. Inquiries should be sent to the Ministry of Food, Essential Oils Branch, Portman Court, Portman Square, London, W.1.

U.S. Drug and Chemical Report

New York, October 18

TIGHT conditions continue in a long list of FINE CHEMICALS; BARBITAL, PHENOLPHTHALEIN, PHENOBARBITAL, EPHEDRINE, TARTAR EMETIC and the SALICYLATES are all exceedingly difficult to locate in good quantities, while the supply situation in COD-LIVER OIL is rapidly becoming worse. MENTHOL remains inactive, with buyers holding off in anticipation of increased supplies fror China; Brazilian exporters' ideas are firm while reports indicate that the mint acreag in that country will be considerably reduce next season. There has been no improve ment in the synthetic CAMPHOR supply pos tion and leading producers are fallin farther behind in deliveries. Despite recer reports indicating that Italian and Spanis MERCURY producers had arrived at a fir pricing policy of $80 per flask, f.o.b. por there have been some recent offerings c Italian material at $72 to $74, accordin to the "Journal of Commerce."

There was a continued improvement i demand for BOTANICAL DRUGS last wee although supplies are expected to becom tighter as the winter season approache Certain condiment items, including a varieties of PEPPER, were difficult to locat on the market, while detentions by the Foo and Drug Administration of many importe lines occasioned high prices for the avail able supplies. Certain importers of India RHUBARB ROOT have abandoned operation for the time being as a result of continue rejection of material by the import contr organisation. The market for ARNIC FLOWERS also remains virtually nominal i face of rejected imports. IPECACUANH and LYCOPODIUM have been working lowe on the prospect of supplies from abroad; re ports indicate that Russian and Polish lyco podium will be arriving here before the en of the month. The arrival of som Rumanian CARAWAY SEED was a notabl feature on the market; other recent ship ments included CUBEB BERRIES from Singa pore, LAVENDER FLOWERS from Spain an another large consignment of GUM ACACI from the Sudan.

Trading in ESSENTIAL OILS last week wa somewhat below the level of the previou week due to shortages of imported oils an the confused conditions which persisted i certain domestic varieties. Prices of SPEAR MINT continued to rise although the major ity of dealers maintained withdrawn posi tions. PEPPERMINT OIL was quoted 25 cents lower at $7.75 to $8.15 per lb., an the reduction was taken to indicate tha the confusion which followed price decon trol was clearing. Stocks of BERGAMOT and LEMONGRASS OILS continued to rise on favourable imports, but dealers in the latter nevertheless report buying interest far in excess of supply.

Pharmaceutical Chemicals

ACETANILIDE.—In good demand. Makers' ices are unchanged: Crystals, 2s. 5d. per .; powder, 2s. 6d.

AMPHETAMINE.—Makers' quotation is changed at 150s. per lb.

ASPIRIN.—Makers' quotations per lb., in uantities of 28-lb.-1-cwt., are (containers brackets): 4s. 1½d. (1-lb.); 4s. (4-lb.); . 11d. (7-lb.); 3s. 10½d. (14-lb.); 3s. 9½d. 8-lb.).

ASPIRIN TABLETS.—Makers quote bulk upplies per 1,000 as follows: Under 5,000, s. 6d.; 5,000 and over, 3s. 4d.; 10,000, s. 3d.; 25,000, 3s. 1d.; 50,000, 3s.; 00,000, 2s. 11d.; 250,000, 2s. 10½d.; 00,000, 2s. 10d.; 1,000,000, 2s. 9d.

ATROPINE.—Home trade prices per oz. re steady at: ALKALOID, 42s. 6d.; 4 oz., 2s.; 25 oz., 41s. 6d. SULPHATE, 34s.; 4 z., 33s. 6d.; 25 oz., 33s. METHYLBROMIDE nd METHYLNITRATE, 75s.

BARIUM SULPHATE, B.P. (*x*-ray).—Prices er lb. quoted by makers, in 28-lb.-1 cwt. ots, for home sales, are (containers in rackets): 1s. 6d. (1-lb.); 1s. 4½d. (4-lb.); 1s. 3½d. (7-lb.); 1s. 3d. (14-lb.); 1s. 2d. 28-lb.). Prices are net, one month.

BISMUTH SALTS.—Makers' prices are as ollows (containers in brackets): 7 lb. and under 14 lb., 14s. 2d. (1-lb.), 14s. 1d. (2-lb.), 14s. 0½d. (4-lb.), 13s. 11½d. (7-lb.), 14 lb. and under 28 lb., 13s. 11½d. (1-lb.), 13s. 10½d. (2-lb.), 13s. 10d. (4-lb.), 13s. 9d. (7-lb.), 13s. 8½d. (14-lb.), per lb. CITRATE, 1s. 8d. per lb. over above prices. SALICYLATE, 3d. per lb. over above prices. SUBGALLATE, 3s. 11d. per lb. over above prices. SUBNITRATE, 1s. 3d. per lb. over above prices.

BORAX.—Makers' prices are: B.P. quality, granulated, £38 per ton; crystal, £39; powder, £39 10s. Commercial grades, £8 per ton less. Packed in 1-cwt. bags, delivered carriage paid in Great Britain, in 1-ton lots and upwards.

BORIC ACID.—The following are makers' current rates per ton lots of B.P.: Granulated, £60; crystal, £61; powder, £62. Commercial grades, £8 per ton less. Packed in 1-cwt. bags, delivered carriage paid in Great Britain, in 1-ton lots and upwards.

GLUCOSE.—Powdered monohydrate for the home trade is quoted as follows: 14 lb.-28 lb., in 14-lb. lots, 11¾d. per lb.; 28 lb.-112 lb., in 14-lb. lots, 11½d.; 28-lb., 10¼d.

HOMATROPINE.—Makers' prices per oz. are as follows (prices per gram in brackets): ALKALOID.—1 oz., 97s. 6d.; 4 oz., 92s. 6d.; 16 oz., 87s. 6d.; (4s.). HYDROCHLORIDE, HYDROBROMIDE and SULPHATE.—1 oz., 75s.; 4 oz., 70s.; 16 oz., 65s. (3s. 2d.).

MANDELIC ACID.—In good demand. Current quotations are as follows: 1 lb., 22s. per lb.; 4 lb., 20s. 3d.; 7 lb., 18s. 6d.; 14 lb., 16s. 9d.; 28 lb., 15s.

METHYL SALICYLATE. — Supply poor. Smalls are quoted at 2s. 6d. per lb.; winchesters at 2s. 1½d.; 56 lb., in demijohns, 2s.; 1 cwt., in demijohns or carboys, 1s. 11½d.; 5 cwt., 1s. 11d. All prices net.

MORPHINE.—Prices per oz. current in the home market are: PURE, ½ oz., 55s. 3d.; 1 oz., 52s. 9d.; 2 oz., 51s. 3d.; 3 oz., 50s. 6d; 4 oz., 50s. 3d. HYDROCHLORIDE, ½ oz., 46s. 9d.; 1 oz., 44s. 3d.; 2 oz., 42s. 9d.; 3 oz., 42s.; 4 oz., 41s. 9d. BIMECONATE and TARTRATE, as PURE; ACETATE, HYDROBROMIDE and SULPHATE, as HYDROCHLORIDE.

POTASSIUM PERMANGANATE. — Current rates are as follows: B.P. (in 1-cwt. drums), 1 cwt. and over, 1s. 8½d. per lb.; 3 cwt. and over, 1s. 8d. TECHNICAL (in 1-cwt. drums), 1 cwt. and over, 166s. 3d. per cwt.; 3 cwt. and over, 161s. 9d.; 5 cwt. and over, 159s. 3d.; 1 ton and over; 156s. 9d.; 4 tons and over, 154s. 3d. TECHNICAL (in 5-cwt. drums), 5-cwt. and over 156s. 9d. per cwt.; 1 ton and over, 154s. 3d.; 4 tons and over, 152s. Terms net, carriage paid to nearest station, containers extra and returnable.

PULV. BISMUTH. CO., N.F.—Current rates per lb. in the home market, in quantities of 28 lb.-112 lb., are as follows (containers in brackets): 2s. 9d. (1-lb.); 2s. 8d. (2-lb.); 2s. 7½d. (4-lb.); 2s. 6½d. (7-lb.); 2s. 6d. (14-lb.); 2s. 5d. (28-lb.).

PHENOLPHTHALEIN. — Rates are unchanged: 1 cwt., 4s. 10d. per lb.; 28 lb., 5s.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.

SANTONIN.—Prices are unchanged: 5 kilos, £44 per kilo; less than 5 kilos, £45; 1 kilo, £46; half-kilo, £47; quarter kilo, £48 per kilo, carriage paid in U.K.

TERPINEOL. — Pharmaceutical quality quoted at 3s. 9d. to 4s. 3d. per lb., according to quantity. Perfumers' quality, in limited supply, is offering at slightly higher rates.

THEOBROMINE.—Prices per lb., in quantities of 28 lb., are as follows: ALKALOID, B.P.C., 30s. 6d.; CALCIUM SALICYLATE, 19s. 3d.; SODIUM SALICYLATE, 19s. 3d.

VANILLIN.—Prices unchanged. 5-cwt., 22s.; 1 cwt., 22s. 3d.; 56 lb., 22s. 6d.; smaller parcels, up to 23s. 6d per lb., as to quantity.

Crude Drugs

ALOES.—Curaçao is quoted at 270s. per cwt., on the spot; forward, 245s., c.i.f.

ARECA NUTS.—Continue to be quoted at from 62s. 6d. to 65s. per cwt., according to quantity, on the spot; forward, 55s., c.i.f.

BALSAMS.—Quotations for *Canada* on the spot are at 14s. 9d. per lb. *Peru* is being offered at from 8s. to 8s. 3d., duty paid; in bond, 7s. 6d.

BENZOIN.—Demand is good. Quotations for Sumatra, near at hand, are held at £25 per cwt.

BUCHU.—Market continues quiet. Short-rounds are quoted at 4s. 6d. per lb., spot.

CAMPHOR. — Fair supply, with new arrivals expected. Chinese, ¼-oz. tablets, afloat, are quoted at 11s. 6d. per lb., landed; spot, 11s. 9d. 1-oz. tablets are steady at 11s. 2½-lb. slabs are quoted at 11s. 3d. per lb., and powder at 10s. 6d.

CANTHARIDES. — Chinese (Mylabris) is offered at 13s. per lb., c.i.f.

CARDAMOMS.—Market continues to be quiet. Aleppy seeds No. 1, spot, from 7s. 6d. to 8s. per lb.; Mangalore half-bleached A's, 9s. per lb.; B's, 8s. 6d.; C's, from 8s. to 8s. 3d. Some Aleppy greens are offered at from 7s. to 7s. 3d. per lb.

CINNAMON.—Quillings are quoted at from 3s. 3d. to 3s. 6d. per lb.; featherings, from 2s. 9d.; chips, sifted and washed, 1s. 10d. to 2s. per lb.

GALBANUM.—Small quantities of gum are available at 8s. 6d. per lb., duty paid.

GENTIAN.—French material is quoted at 112s. per cwt., spot.

GINGER.—Jamaica No. 1, 125s. per cwt.; No. 2, 110s.; No. 3, 105s.; sellers. African, 82s. 6d., on the spot.

GUM ACACIA.—Demand continues to be fair. Kordofan cleaned sorts are offered at 76s. per cwt., London; 74s., Liverpool. Talha, cleaned, 45s., on the spot; 42s. 6d., c.i.f.

GUM MASTIC.—Demand continues and supplies are fair. No. 1, on the spot, 18s. per lb.

HENBANE.—Indian leaf is quoted at 250s. per cwt., spot. Egyptian (*muticus*), shipment, 75s., c.i.f.

JABORANDI. — Forward quotations are steady at 95s. per cwt., c.i.f.

JALAP.—Forward quotations for Vera Cruz, testing 12.4 per cent. resin, are firm at 3s. 6d. per lb.

JUNIPER.—Quotations for Italian berries are at 56s. per cwt., spot.

KAMALA.—Limited supplies are availab at 3s. per lb., landed.

KOLA NUTS.—Market continues qui African quarters are offering at 7½d. p lb.; African halves, 6d.; Jamaican wash halves, 5½d.

KRAMERIA.—In fair supply. Root offered at 11d. per lb., on the spot.

LIQUORICE.—Anatolian whole root easier on the spot at 65s. per cwt.

LOBELIA.—Price of the herb has be sharply advanced by 1s. 3d. per lb. to per lb., on the spot.

MENTHOL.—Brazil is quoted at from 4 to 46s. per lb., duty paid; Chinese, 5 on the spot; afloat, 47s. 6d. per lb., land duty paid.

MYRRH.—Aden sorts are quoted on t spot at from £14 to £16 per cwt., accordi to quality.

NUTMEGS.—Prices nominal. West Indi 80's, 5s. per lb.; sound unassorted, 4s. 9d wormy and broken, 4s. 6d.

NUX VOMICA.—Madras is quoted at fro 40s. to 42s. 6d. per cwt.; Mangalore, 40 spot; Cochin, 47s. 6d. per cwt.

ORANGE PEEL.—Spanish quarters co tinue to be easier at about 2s. per lb.; swe ribbon, 2s.; fine-cut Tripoli, spot, 4s. 9 to 4s. 10½d. per lb., nominal.

ORRIS.—Florentine rhizome is quot easier at 125s. per cwt.; Verona, 75s. p cwt.

PAPAIN.—Prices of East African materi are firmly held at the previously quot price of 24s. per lb., spot.

PEPPER. — Maximum controlled pric are unchanged. Whole, not picked over cleaned, on sale to processors, 1s. 4d. p lb. for white and 1s. for black. Picked ov and cleaned, 1s. 8d. and 1s. 2d. per lb., r spectively. Lampong black, October-No ember shipment, easier at 1s. 10½d., c.i. sellers; white Muntok, October-Novemb shipment afloat, easier at 2s. 3d., c.i. sellers.

PIMENTO.—Quotations are steady 1s. 1d. per lb., on the spot: forwar 122s. 6d. per cwt., c.i.f.

QUASSIA.—Quotations are firmer at 40 per cwt., on the spot.

QUILLAIA.—Natural bark is steady 125s. per cwt., spot; cut, 150s. per cwt ex store.

RHUBARB.—Rough-round material, fair fracture, offered at from 10s. to 12s. 6 per lb., according to quality Forward price are inclined to be lower.

SARSAPARILLA.—Jamaica native, red and low mixed, is quoted at 2s. 9d., spot.

SEEDS.—ANISE.—Turkish, 2s. 7d. per lb., ty paid. CELERY.—Indian, quoted at 6d. per lb., spot. CORIANDER.—Morocco, s. per cwt., duty paid, ex wharf London; dian, 82s. 6d., ex wharf London. CUMIN. Morocco, nominal, 210s., duty paid; dian, afloat, quoted at 215s., landed ms. DILL.—Indian, spot, 60s. per cwt., wharf London. FENNEL.—Indian, spot, os. per cwt., ex wharf London. FENUREEK.—Indian, spot, 62s. 6d., ex wharf verpool.

SENEGA.—Canadian root is steady at s. 6d. per lb., landed London.

SENNA.—Tinnevelly leaves, spot, are oted 1s. 2d. for No. 1 material; No. 2 ½d.; No. 3., 10d.; No. 4, 8½d. Tinnelly pods, good quality, from 10½d. to ½d. per lb., f.a.q., 6d. to 6½d. Alexanian pods, hand-picked, spot, from 4s. 6d. 5s.; medium quality, 2s. 9d.; manufacring grade, 1s. 9d. to 2s.

STRAMONIUM.—Indian is tending easier t from 75s. to 80s. per cwt., spot.

STROPHANTHUS.—Kombé seed, 100 per ent., is firmly maintained at 7s. per lb., on e spot.

TRAGACANTH. — Limited business with rices steady. Selected grades are quoted at 155 per cwt. Prices of medium grades are s follows: No. 1, white, £145 per cwt.; o. 2 white, £125; No. 3 white, £110; o. 4 white, £85; pale leaf, £50; amber af, £50; dark amber, £35; brown leaf, 25; red-and-brown leaf, £20; red leaf, rom £17; hoggy, £12 to £15.

TURMERIC.—Madras finger, spot, 95s. per wt., ex wharf London; 92s. 6d., ex store Liverpool. Shipment, October-November, 7s. 6d., c.i.f.

VALERIAN.—Belgian is quoted at 240s. to 255s. per cwt., according to holder.

WAXES.—Business quiet. CARNAUBA.—Fatty grey, 1,035s. per cwt., spot; November-December shipment, 920s. c.i.f.; chalky grey, 910s., c.i.f.; prime yellow, spot, 1,200s.; November-December shipment, 1,075s., c.i.f. CANDELILLA.—Spot and forward delivery, 450s. per cwt. BEES'.—Dar-es-Salaam, spot, 340s. per cwt.; shipment, 340s., c.i.f. Benguela, spot in hand, 315s.; shipment, nominal, 305s.; Sudanese, 315s. on the spot, in bond; Lindi, spot, 337s. 6d.; shipment, 335s. MONTAN.—350s. per cwt., ex store. OURICURI.—7 per cent. impurities, 550s. per cwt., landed terms.

Essential and Expressed Oils

ANISE (STAR).—Offered in the open market at 60s. to 70s. per lb.

BAY.—Prices of West Indian are firmly held at 11s. 6d. per lb. Forward prices are easier.

CASTOR. — Controlled prices are as follows: "Firsts," £110; "seconds," £108 per ton, naked ex works.

CLOVE.—English-distilled bud oil (B.P.). is priced at 12s. to 13s. per lb., according to quantity. Zanzibar is scarce at 11s. per lb.

COCONUT.—Quotations for crude oil are £49 per ton; refined deodorised, steady at £56. Refined hardened deodorised, £60.

CORIANDER. — English-distilled oil of B.P. quality is offered at 180s. per lb.

GERANIUM.—Bourbon is offered at from 95s. to 100s. per lb., on the spot.

GINGER.—Quoted from 100s. to 125s. per lb., according to source.

GROUNDNUT.—Bulk supplies are officially quoted as follows: Refined deodorised, hardened to 40°, £62 per ton; refined deodorised, hardened to 50°-52°, £63.

LAVENDER.—French oil (38 to 40 per cent. esters) continues firm at 60s. per lb., on the spot. Spanish (spike) is quoted at 16s. per lb.

LEMONGRASS.—Quotations are steady at from 20s. to 21s. per lb. Forward prices tend to be lower.

LIME.—Quotations for West Indian distilled oil are steady at 35s. per lb.

NUTMEG.—English-distilled oil is offered at 75s. per lb., on the spot.

OLIVE.—Controlled price of edible oil (1 per cent.) in drums to primary wholesalers, 35s. 9d. per gallon (9 lb.). Price from wholesaler to retailer, 43s. 6d. per gallon.

ORIGANUM.—This oil is quoted on the spot at about 21s. per lb.

PIMENTO BERRY.—English-distilled oil (B.P.C.) is priced at 50s. per lb., spot.

RAPESEED.—Crude oil is quoted at £91 per gallon, naked ex works, for bulk supplies.

ROSEMARY.—Spanish oil is quoted at prices ranging from 10s. to 12s. 6d. per lb.

SASSAFRAS.—Brazilian oil is offered at 6s. 6d. per lb. on the spot; forward, 6s.

THYME.—Red oil (40 per cent. phenols) is quoted at 21s. per lb., on the spot; white oil, 22s. 6d. per lb.

WINTERGREEN.—Natural oil is priced at 16s. per lb., spot.

MISCELLANEOUS INQUIRIES

Formulas given below may have been prepared for overseas subscribers and the inclusi of substances therein is no indication that they are available in Britain or, if availabl permitted to be used for the purpose.

Purchase Tax in Channel Isles.—*J.M.Y.*—No purchase tax is chargeable on goods sent from Britain to the Channel Isles, as the goods are regarded as exports.

White Henna.—*H.D.C.*—White henna is the name usually given to a paste made of magnesium carbonate, solution of ammonia, and solution of hydrogen peroxide. It is used in bleaching the hair to a platinum-gold or ash-blonde shade. The same purpose is served by a mixture of light magnesium carbonate and sodium perborate, water being added to the mixture to form a paste before use. Artificial henna dyes are prepared by mixing a suitable aniline dye (about 1 per cent.) with powdered tartaric or citric acids. Water is added at the time of application.

Liquid Shampoo.—*R.S.*—The following formula is for a liquid shampoo containing oleic acid, caustic potash and spirit:—

Coconut oil	68 c.c.
Cottonseed oil	78 c.c.
Oleic acid	36 gm.
Potassium hydroxide ...	42 gm.
Potassium carbonate ...	9 gm.
Alcohol (95 per cent.) ...	42 c.c.
Talc	10 gm.
Distilled water to ...	1000 c.c.

Melt the oleic acid in the hot oils (about 92°C.). Add the alkali dissolved in 100 c.c. of distilled water, and heat until saponified. When cool, add the alcohol and sufficient water to make the product measure 1000 c.c. Add the talc and filter.

Germicidal Sprays.—*J.W.*—The following formulas will give preparations of the type you desire:—

I

Pine needle oil	2 oz.
Solution of formaldehyde ...	2 oz.
Acetone	6 oz.
Isopropyl alcohol to ...	20 oz.

For use as a spray, mix 1 oz. with a pint of water.

II

Oil of spike lavender ...	48 min.
Oil of verbena ...	1 dr.
Oil of lemon ...	20 min.
Camphor	15 gr.
Oil of pine	100 min.
Oil of eucalyptus	20 min.
Solution of formaldehyde	30 min.
Distilled water	1½ oz.
Isopropyl alcohol to ...	8 oz.

Use 1 oz. to each pint of water for a spra

Emulsion Hair-creams. — *Y.N.* — T following may provide the type of prepa tion you have in mind:

I

Diglycol laurate	20
Neutral hydrocarbon oil ...	50
Water	70
Perfume	q.s.
Preservative	q.s.

II

Deodorised kerosene	15
Neutral hydrocarbon oil ...	30
Diglycol laurate	20
Water	75
Perfume	q.s.
Preservative	q.s.

The creams are prepared by pouring t oils into the diglycol laurate mixed pr viously with the water, with continuo agitation. Their fixative properties may increased by substituting a portion of t water with 4 per cent. methyl cellulo solution.

Saddle Galls on Horses.—*J.D.R.* Treatment of saddle galls on horses is means of either an ointment or a lotion. suitable ointment is:—

Acid. boric } Zinci oxid } Pulv. gallæ } ...	aa. 1 dr.
Indigo	q.s.
Adipis	1 oz.

Apply twice daily.

Two suitable formulas for a lotion are:

I

Zinci sulphas	1 oz.
Liq. formaldehydi ...	4 fl. dr
Aquam ad ...	1 pint

II

Plumb. acet. } Zinci sulph. } ...	aa. 1 oz.
Phenol	2 dr.
Aquam ad	1 pint

The lotion should be applied frequen and allowed to dry on; in addition to dr ing up the gall, it appears to harden a thicken the skin, and prevent future ru As saddle galls are produced by pressu it is strongly recommended that the sadd should be examined to ensure that cau of friction are removed

CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor.

Bureaucracy

SIR,—Recently application was made by to the Ministry of Supply for authorisa- n to purchase 10-mega-unit packs of cium penicillin. To this a reply from the sistant Controller of Penicillin Produc- n stated "I have to inform you that no thorisation from this control is necessary purchase this quantity." Application to e manufacturers a few days later caused em to reply advising that "10-mega-unit cks of calcium penicillin can only be pplied against a Ministry of Supply thorisation." The implication one must aw is that the staff of the Penicillin Pro- ction Control are not fully aware of the strictions that they place on the substance ey control. May this be taken as a warn- g by those who think bureaucratic con- ol of drugs is essential for an efficient ational Health Service? Perhaps this is n appropriate occasion to suggest to the linister of Health that more useful service ould be rendered the public if he would xamine his department for irregularities nd inefficiency.

Yours faithfully,

Ripley. KENNETH E. WHITE.

How Shortages are Aggravated

SIR,—Most of us sustained ourselves uring the war years with the hope that after the war" our burdens would be ghtened. The stern fact is that we are till faced with shortages, particularly in ur diets. There are many items of more or ess nutritional value stocked by chemists or which the demand greatly exceeds the upply. An outstanding example is glucose. There are people clamouring for glucose oday to whom no amount of hot salesman- hip could have sold it in 1939. I venture hat if this commodity were plentiful and acked its "sweetening" power we would still require salesmanship to put it over the counter, instead of diplomatically keeping it under the counter. Glucose, according to the National War Formulary, is of little value, with certain exceptions, when it should be injected. The important point from a retail chemist's angle is the cause of the present shortage even for cases which do need it. When a chemist informs a customer that glucose is reserved for doctors' prescriptions, the result is invariably that a doctor's line is produced. How many doctors take time to decide whether it is necessary or not? The public are further encouraged in the belief that a doctor's line is an "open sesame," and it takes time (and sometimes tries tempers) to emphasise that the material is simply not there! Personally I have been handed "prescriptions," each of which would exhaust my entire supply of glucose! Chemists may have unwittingly contributed to this exasperating state of affairs. By remarking that so and so requires a prescription they have conveyed the idea that it could be procured. It is probably too late to suggest that a polite refusal without qualification would have minimised the trouble. Liaison between the governing bodies of doctors and pharmacists would, I think, be of some use in this and other matters. I have mentioned glucose particularly, but the list of shortages is still formidable, including olive oil, liquid paraffin, malted milk, etc., most of which are being prescribed by the patient.

Yours faithfully,

Anstruther. R. S. WHITELAW.

Election Candidates' Thanks

SIR,—May we, through the medium of your journal, express our thanks to those pharmacists who voted for us in the recent Council election of the Pharmaceutical Society of Northern Ireland? We are indeed grateful for their help and support and we will endeavour, during our term of office, to justify their selection.

Yours faithfully,

W. H. BOYD.

Belfast. H. W. GAMBLE.

SIR,—Through the courtesy of your columns may I be permitted to express my very sincere thanks to all who voted for me, and especially to the members and officials of the Irish Local Government Officers' Union, Compounders' branch of Eire, who, through their efforts and influence, were instrumental in securing such a large number of votes at such short notice in the recent Council election of the Pharmaceutical Society of Ireland. I trust that all who received my election address will study its contents carefully for the next twelve months and so help to raise the standard of pharmacy in Eire for which my colleagues and self have so successfully fought in the past and expect to raise to even higher levels in the future.

Yours faithfully,

Dublin. M. O'DONNELL.

COMING EVENTS

Notices for inclusion under this heading should be sent in time to reach the Editor not later than Wednesday morning of the week of insertion.

Tuesday, October 29

NORTH METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, Wellcome Research Institution, Euston Road, London, N.W.1, at 7.30 p.m. Dr. E. Walton, M.Sc. (Wellcome Chemical Works) on "Morphine Substitutes."

WORCESTER CITY AND COUNTY PHARMACISTS' ASSOCIATION, Glee Room, Crown Hotel, Worcester, at 7.30 p.m. Inaugural meeting.

Wednesday, October 30

BRITISH ASSOCIATION OF CHEMISTS, Gas Industry House, 1 Grosvenor Place, London, S.W.1, at 7 p.m. Mr. H. C. Stephenson, B.Sc., on "Protection Against Industrial Poisons."

HARROW BRANCH, PHARMACEUTICAL SOCIETY, Baptist Meeting Room, College Road, Harrow, at 7.15 p.m. Discussion introduced by Messrs. H. W. Tomski and M. R. Williams.

SHEFFIELD BRANCH, PHARMACEUTICAL SOCIETY, Metallurgical Club, West Street, Sheffield, at 7.30 p.m. Social evening.

[EIRE] PHARMACEUTICAL STUDENTS' REPRESENTATIVE BODY, College of the Pharmaceutical Society of Ireland, 67 Lower Mount Street, Dublin, at 8.30 p.m. Annual meeting and election of officers.

Thursday, October 31

MANCHESTER PHARMACEUTICAL ASSOCIATION, JUNIOR BRANCH, Lesser Geographical Hall, The Parsonage, Manchester, at 7.45 p.m. Brains trust.

Sunday, November 3

MANCHESTER PHARMACEUTICAL ASSOCIATION, Ramble to Eccles Pike, Kettleshulme. Meet at Central station, 8.45 a.m. Book Chinley return.

LEEDS BRANCH, PHARMACEUTICAL SOCIETY. A dinner and dance will be held at the Parkway Hotel, Otley Road, Leeds, on November 13. Tickets 21s. each.

MANCHESTER PHARMACEUTICAL ASSOCIATION AND GUILD OF PUBLIC PHARMACISTS. A dance in aid of the Benevolent Fund will be held at the Fallowfield Hotel, Manchester, on November 7. Tickets 7s. 6d., including refreshments.

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY. The annual dinner and dance will be held at Pyne's Restaurant, London, S.E.4, on November 6. Tickets 17s. 6d.

TRADE MARKS

(*From "The Trade Marks Journal," October* 2)

"RANOL"; for toilet soaps, shampoos and brilliantine (3). By Harry Sidney Fenton, 14 Worple Road, Wimbledon, London, S.W.19. 637,145.

"FANTA-STICK"; for lipsticks (3). By Inter-Hamol S.A., 18 Friedheimweg, Berne, Switzerland. 641,624.

"TELESIA"; for pharmaceutical preparations (5). By Robert William Billing, 30A Cambridge Street, Wellingborough. B635,424.

"MARPRONTIL"; for pharmaceutical preparations and substances (5). By Bayer Products, Ltd., 14 Waterloo Place, Pall Mall, London, S.W.1. 642,286.

"MAXAN"; for razors and safety razor blades (8). By Albert Machan, 97 Derbyshire Lane, Sheffield, 8. 641,458.

"ZEPHO"; for razor strops made of plastics (8). By Pidgen Bros., Ltd., 7 Helmet Row, Old Street, London, E.C.1. 641,680.

"SCONA"; for electrical apparatus and instrumen included in this class; scientific, nautical, su veying, photographic, cinematographic, optica weighing and measuring apparatus and instr ments; talking machines and parts (not incl ded in other classes) of all such goods (9). E General Aniline & Film Corporation, 230 Pa Avenue, New York, N.Y. 639,785 (Associated

"ALUCRYL"; for surgical, medical, dental ar veterinary instruments and apparatus (includi artificial limbs, eyes and teeth) (10). E Frederick Halliwell, 35 Park Road, Blackpoo Lancaster. 636 334.

"LIZZIAN"; for all brushes (21). By Herbe Bainbridge Hillary, Mosleigh, Coleshill Heat Road, Marston Green, Warwickshire. 641,91

Application amended after Advertisement.

Specification No. 639,423 by Alfred Smith should b altered so as to read "Solutions and sachets, a for use in waving the hair; lotions for settir the hair, and hair cream."

(*From "The Trade Marks Journal," October*

"CHERUBIN"; for perfumes (3). By Maisc Georges, 38-40 Buckingham Palace Road, Lo don, S.W.1. 635,551.

"DEVOOM"; for perfumery and toilet preparatio (not medicated) (3). By Saenz, Briones & Cia Paseo Colon Street No. 1,100, Buenos Aire Argentine. 635,804.

"NURIMOR"; for skin lotions and face creams, a being non-medicated toilet preparations (3 Facsimile signature "Marie Earle" repeate several times on shield design; for perfume toilet soap and toilet powders (not med cated (3); Facsimile signature "Marie Earle" for salves, skin lotions, creams, toilet water eyebrow ointment, powders, emulsion of cucun bers, preparations for use in conjunction wit toilet creams, liquid toilet powders and bat salts, all being non-medicated toilet preparation preparations for the hair, dentifrices, toil rouge, perfumes and soap (3). By Coty, Inc 423 West 55th Street, New York, N.Y. 637,645 47,-48 (Associated).

"DUPERCO"; for soaps, perfumes, toilet prepar tions (not medicated), cosmetic preparation dentifrices and essential oils (3). By Museu Drug Stores, 69A High Street, Godalmin Surrey. 638,305.

"DRENE"; for bleaching preparations and oth substances for laundry use; cleaning, polishin scouring and abrasive preparations; detergent perfumery, toilet preparations (not medicated cosmetic preparations, dentifrices, depilator preparations, toilet articles (not included i other classes), sachets for use in hair wavin perfumed soaps and essential oils (3). B Thomas Hedley & Co., Ltd., Phoenix Building Collingwood Street, Newcastle-on-Tyne. 640,83 (Associated).

"ETIQUETTE"; for brilliantine, toilet paraffin, ha cream, and toilet preparations for use in settin the hair (3). By Cosmétique, 105 Skerton Roa Old Trafford, Manchester, 16. 641,137.

"RIBAMBELLE"; for toilet preparations (not med cated), cosmetic preparations and perfume (3). By Loman D'Argent, 9 Rue Duquesno Brussels, Belgium. 641,450.

"SOLWASH"; for washing preparations (3). B H. S. Pitt & Co., Ltd., Oakfield Offices, Bre tell Lane, Stourbridge, Worcestershire. 642,3

"CLORSAN"; for pharmaceutical preparations an substances for human and veterinary use (5) By Boots Pure Drug Co., Ltd., Station Stree Nottingham. 634,461 (Associated).

"G-HEX" on hexagonal design ("G" dis claimed); for insecticides (5). By Deni McDermott, 47A Church Street, Runcorn Cheshire. B636,865.

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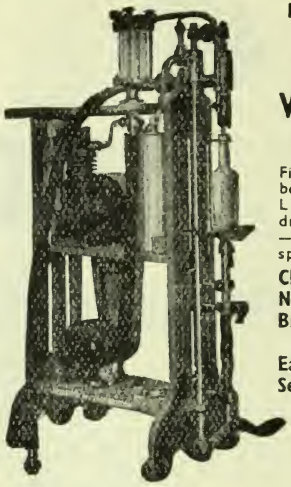

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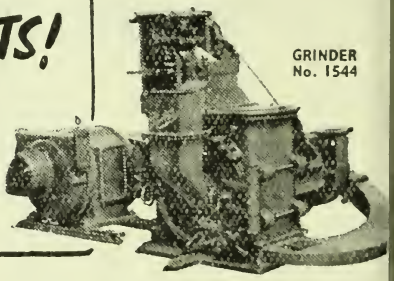

GRINDER No. 1544

GP7a

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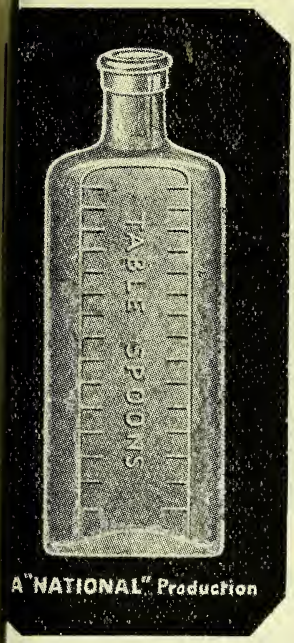

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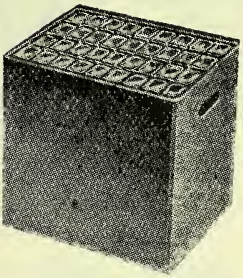

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Ranging in size ½ oz. up to 3 oz.
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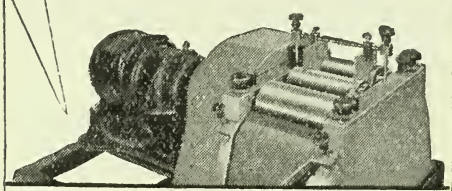

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Write for list 250

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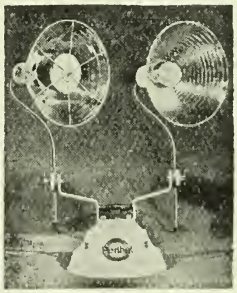

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SCOTT'S

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DESTROY FLIES ON CONTACT

4/- EACH

THIS YEAR'S FASTEST SELLING LINE

Scott's D.D.T. Fly Papers will clear a room of flies, gnats, midges, etc., in no time. D.D.T. is absorbed through the pads of the flies' feet which causes death very quickly.

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Asthma Tablets

merit your confidence and recommendation

FORMULA

Ephedrine Hydrochloride ½ gr. Grindelia Powder ¼ gr. Acetylmethyldimethyoxamidphenylhydrazine (Pickups Ltd.) ½ gr. Theobrom. et Calc. Salicyl. ⅔ gr. Lithium Benzoate 1 gr.

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Do-Do Asthma Tablets are available to the public in the following sizes: 1s. 1½d. (7 Tabs.), 3s. 4½d. (25 Tabs.) and 11s. 10d. (100 Tabs.). Also a Special Dispensing Pack: 29s. 7d. (300 Tabs.).

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RATOIDS

RED SQUILL BISCUITS

The most effective EXTERMINATOR for RATS and MICE.

Harmless to Poultry, Domestic Animals and Human Beings.

Ready to use. No messy preparations. Clean to handle.

Again in full supply. In BISCUIT form for Rats. Retail 1/9 & 4/9 also in Bulk 40/- CRUMBS for Mice 1/2

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DANYSZ VIRUS

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Virus for Mice only, single tube, 1/6 9/- ,,
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Bottles 6/- each	4/6 each
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½ gall. tins	10/-	... 7/6	... 6/8
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For destroying Blackbeetles, Cockroaches, Crickets, etc.

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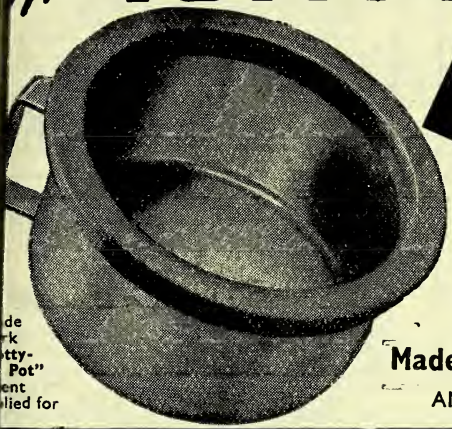
DELICATE SUBJECT — FOR DELICATE SKINS

The TOTTY-POT

Rubber Ringed for Cushion Comfort



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Detachable ring, easily removed for cleaning purposes

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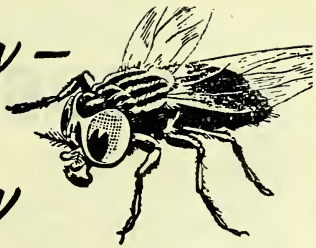

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Soothing and harmless to the most delicate skins

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Specially prepared for the treatment of soreness, chapped surfaces, burns, abrasions, cuts, etc., and indicated in all cases of skin eruption.

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announce that their

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The Malt Chocolate with Calcium, Hæmoglobin and Vitamin D having fine therapeutical properties and high food value

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This well-known preparation is still being manu-
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Trade price 18/- per doz.

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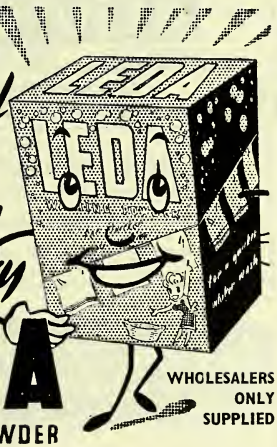

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ASHING POWDER

★ Modern scientific detergent.
★ Amazing cleansing properties.
★ For all fabrics—silks and woollens.
★ No boiling or scrubbing.
★ Ideal for washing-up and general housework.

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13 TO THE DOZEN—33⅓% DISCOUNT

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1. Boon Products embody new anticeptics, of higher, more uniform germicidal power than those previously available. 2. New bases enhance the healing efficiency of these antiseptics. 3. Boon Products are pleasant to use, non-poisonous, non-irritant, non-staining. Full particulars (packing, terms, etc.) from the Sole Distributors to the Chemist Trade :—

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THERE IS ALWAYS A STEADY DEMAND FOR

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Evening Glory
SOAPLESS SHAMPOO
RETAIL PRICE 4d. each

Send Orders to Sole Selling Agent :
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RE-SUF-LIN *for* TABLETS
ASTHMA, BRONCHITIS, EMPHYZEMA
Please order through your Wholesale.
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desirous of obtaining Representation for produc available export on Agency basis. Director above Company proceeds on selling mission, Riv Plate, near future. Definite enquiries on han

Healthy babies Happy mothers

You can recommend Drury's Infants' Preservative with every confidence. It is safe, effective, and a most excellent remedy for Wind Spasms, Griping pains, and other distressing complaints incidental to infants at the period of cutting their teeth.

If you stock
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Infants' Preservati

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THE
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The Last Word in Inhalers

Models suitable for:
Aqueous Solutions
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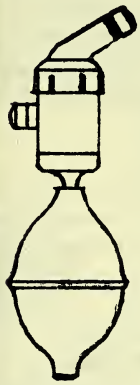
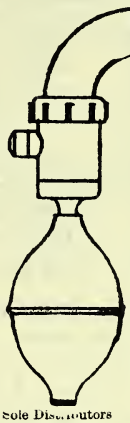
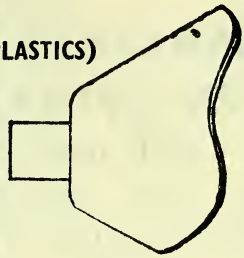
Insufflation of Powders







Model B - 18/- **Model C - 24/-**

HOME MODEL 'C'

Ideal for the administration of BROVON Inhalant and Penicillin by inhalation; write for Illustrated pamphlet giving details of technique.

OCKET MODEL 'B'

Sole Distributors
MOORE MEDICINAL PRODUCTS LTD.
Aberdeen **Scotland**

DIMOL
PARAFFIN

Obtainable in two sizes—
4 oz. bottle in carton—
1/6 Tax 2½d.
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Minimum ... 12/7 doz.
Wholesale Price 21/- doz.

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A NEW pharmaceutical preparation prepared from high viscosity liquid paraffin of the nest quality, incorporated with DIMOL in a nall quantity of pure vegetable oil of high bsorption percentage value. The well known ubricating and laxative properties of the nedicinal liquid paraffin are advantageously upported by the addition of a harmless non-oxic intestinal antiseptic.

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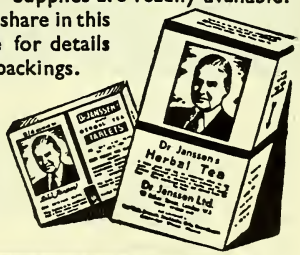
These tonic remedies for figure fitness are in greater demand than ever. National advertising stimulates this demand and makes them ready sellers. Supplies are readily available. If you want to share in this demand write for details of prices and packings.

● **Wholesale distributing agents are wanted in most areas throughout the country.**



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should, in their own interests, join the Institute of Chemists-Opticians.

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MANUFACTURING CHEMISTS

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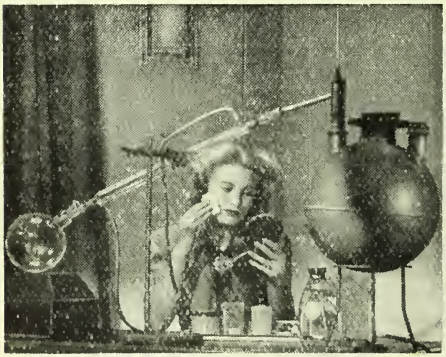

It's Illegal—

Maybe!—to use a distillation apparatus in one's boudoir without a very special permit. The Field organisation, however, with its scientific planning, permits the products of distillation to be used for all fine perfumery and aids to beauty anywhere. Can we offer you our technical help?

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PERFUME COMPOUND SPECIALISTS

FIELD & CO. (AROMATICO) LTD., MOUNT PLEASANT, ALPERTON, MIDDLESEX

D. Bee

Medicinal and Food Products

announce that they are able to offer Prompt Delivery of their pure

HONEY, GLYCERINE & LEMON

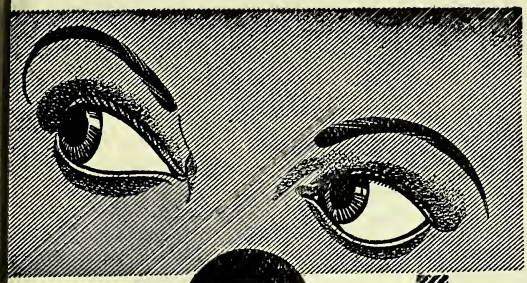
Cough Linctus

a popular product at a popular price, made from *real* Lemon Juice, *pure* Honey and Glycerine. The ingredients speak for themselves—you cannot afford not to stock this quick-selling line.

Ask also for particulars of our other pure food products

Trade terms from

D. Bee Food Products Ltd., New Charles St., Goswell Rd., E.



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EYE LOTION TABLETS

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OPTABS LTD., 24, 26, 28 CHAPEL STREET, BRADFORD

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Backed by years of practical experience in large scale manufacture of industrial rubber products, and with a Research Department that is always at your service, you can, with confidence, place your particular rubber problem into our hands. A preliminary talk entails no obligation. Get in touch with us.

EMPIRE RUBBER CO
DUNSTABLE - BEDS

B2

Trade Price: 47/- per Gross Plus Purchase Tax or £2-12-1. Cash with Order. 3½d. Size: Trade Price 25/- per Gross Plus Purchase Tax or £1-8-4. Cash with Order. Palatable and efficacious. Limited Supplies. Orders taken in strict rotation. Carriage paid on Gross lots.

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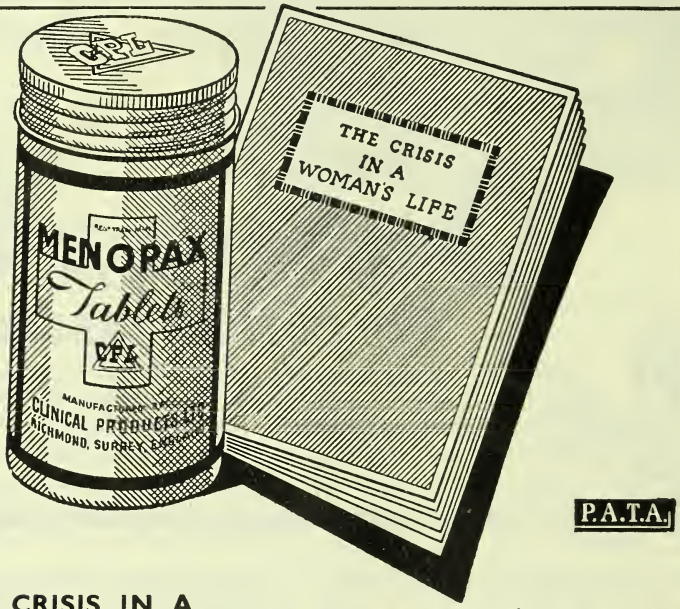
Roundhay Grange, Leeds, 8. Tel.: 58980

THE BOOK BEHIND THE PRODUCT



"THE CRISIS IN A WOMAN'S LIFE" now in its 21st edition, has an immense appeal to women of 40-50, for it throws a new light on the Menopause, a subject which is of vital interest to them.

It is probably one of the most informative publications on the subject and promotes sales of Menopax.

RETAILERS who are co-operative appreciate the value of the book from experience.

THE ENTERPRISING CHEMIST will always have a few copies prominently displayed, so that interested customers may take one.

A WOMAN commencing a course of Menopax — very often on her doctor's advice — will in all probability continue to take this preparation for several years.

PROFIT Every time you sell a large size Menopax bought on best terms, your profit is 3/5.

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The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of the Chemist & Druggist

OCTOBER 26 1946

Prevailing restrictions and heavy demand on space necessitate the holding over of a number of advertisements week by week. As normal press days are in abeyance advertisers are advised to send instructions as early as possible. Advertisements must be prepaid. Box Office Numbers 2/- extra.

SITUATIONS OPEN

for 40 words or less, 2d. for every additional word.

RETAIL (HOME)

CAPABLE unqualified assistant wanted for counter work in busy East End pharmacy. Opportunity affording good remuneration to conscientious worker. Salary plus commission. Apply 127/263, C. & D. Office.

MANAGING position offered to young qualified chemist in London E. district. Permanent and progressive; salary and commission; interest in business. Particulars to 131/264, C. & D. Office.

QUALIFIED Manager required for reopening West End Pharmacy. Comfortable post. Hours 9 a.m. to 6 p.m. Half day off. No Sunday duty. Write 126/126, C. & D. Office.

ACTON. Manager required for busy pharmacy in Acton. Good prospects for energetic man capable of building up somewhat neglected business excellent site. Permanency. Regret no living accommodation available. Write 127/147, C. & D. Office.

ASSISTANT required, qualified, lady or gentleman, mainly for dispensing, high-class West End pharmacy. Details to Meacher Higgins & Thomas, 105A, Crawford St., London, W.1. 'Phone WAD. 2788.

DISPENSER-Bookkeeper, preferably ex-Service man, wanted. Write, giving particulars of experience, references and salary required, to Dr. Hillcocks, Springfield Road, Chelmsford, Essex.

ENFIELD, MIDDLESEX. Capable pharmacist required to manage good class old established branch business in main thoroughfare. Permanent appointment, good prospects. Possibility of flat later, but not immediate. Write 127/148, C. & D. Office.

HEPPELLS, Chemists, require experienced unqualified assistants for good-class pharmacies in the West End. Apply by letter (or 'phone Victoria 204 for appointment) to Superintendent Chemist, Heppells (1932), Ltd., 70 Vauxhall Bridge Road, London, S.W.1.

LOWESTOFT. Manager required for branch business in Lowestoft. Energetic business builder, keen on display. Good salary to right man. Write 127/149, C. & D. Office.

NORTH LONDON. Senior counter assistant, preferably with some knowledge of dispensing, required for pharmacy in North London. Permanent appointment with good wage for reliable worker. Write 127/146, C. & D. Office.

ORRIDGE & COMPANY Employment Agency, Columbia House, Aldwych, W.C.2. Chancery 6446-7. Branches at Southampton and Birmingham. Enquiries invited from all employers seeking staff. Many pharmacists and unqualified assistants available for retail and wholesale. Representatives also requiring situations. Reasonable terms. Write to Columbia House for particulars.

PHARMACIST required as assistant, comfortable post, permanency. Please state age, salary required, etc. C. A. Stokes, 437, Stapleton Road, Bristol.

QUALIFIED Assistant required, mainly for dispensing. Permanency. London West. Apply 130/247, C. & D. Office.

QUALIFIED Assistant, male or female, for central premises. Progressive position with scope for initiative. Short hours, no half-day or Sunday duties. Apply, stating salary required and details of experience, to Co-operative Society, Ltd., Stamford Street, Ashton-u-Lyne.

QUALIFIED or unqualified lady or gentleman required for dispensing and counter. Permanency, in pleasant country town, near London. Board residence only, can be arranged. Please reply stating age, salary required and experience. Morgan, Chemist, 75 Woodbridge Road, Guildford.

QUALIFIED assistant required with prospect of managership. Also qualified manager and unqualified assistant. Permancies for suitable men of initiative. Write with details of experience, 128/172, C. & D. Office, or 'phone for interview, ILFord 1756.

QUALIFIED or unqualified male assistant for dispensing and counter work. Apply: J. W. Quibell, Ltd., 885 Finchley Road, Golders Green, N.W.11.

ROCHDALE, Lancs. J. J. Thomas & Son require the services of a young pharmacist in the dispensary of an up-to-date pharmacy. Apply to J. J. Thomas & Son, 24 Yorkshire Street, Rochdale.

SHEERNESS-ON-SEA. Qualified Pharmacist required to take charge of Central Pharmacy Department (under direction of Superintendent Pharmacist). No Sunday duty, easy hours, superannuation. Applications, giving fullest particulars, to Managing Secretary, Sheerness Co-operative Society, Ltd., 100 High Street, Sheerness, Kent.

SIDMOUTH. Holman, Ham & Co., Ltd., of Fore Street, require a pharmacist or unqualified assistant with dispensing experience. Male or female (preferably single). Modern well staffed shop, congenial conditions. Apply giving full details.

THE considerable extension of our present activities calls for the services of several first-class pharmacists for branch managerial positions in the London area. The positions offer scope, security of tenure and a pension. Will interested pharmacists, both those in the Forces shortly to be demobilised and those looking for progressive positions, apply to Superintendent Chemist, London Co-operative Chemists, Limited, 54, Maryland Street, Stratford.

THE Royal Arsenal Co-operative Chemists have openings for qualified pharmacists in their branches throughout South-East London. The positions offer good conditions of service, holidays with pay, and trade union rates of wages. Applications should be made in writing, stating age, experience and salary required to the Staff Manager, Royal Arsenal Co-operative Chemists, 113 Powis Street, Woolwich, S.E.18.

UNQUALIFIED Assistant, either sex, for dispensing and counter. Please give particulars of age, experience, when free, and salary required. Apply 130/248, C. & D. Office.

WANTED at once, lady dispenser-book-keeper. Experienced. Private practice. Comfortable accommodation and service provided. Drs. Tisdall and Playfair, 19 High Street, Harrow-on-the-Hill.

WANTED. Fully qualified pharmacist, lady or gentleman to manage branch pharmacy. Permanent situation for suitable applicant, superannuation scheme in operation. Full particulars giving age, experience and salary required, to The Secretary, Heckmondwike & District Co-operative Society, Ltd., 3 Oak Street, Heckmondwike, on or before Thursday, October 31st, 1946.

YOUNG lady, unqualified, to assist costing, check and price chemists' invoices. Central London. Hours 8.30 a.m. to 5.30 p.m. Saturdays 1 p.m. Apply 128/181, C. & D. Office.

YOUNG man of good education and personality required for post of general manager of small pharmaceutical business. Essential qualifications include proved successful sales experience, organising ability, understanding of business economics and personnel management. Apply (in confidence), giving full personal and business details, to 131/271, C. & D Office.

WHOLESALE

A QUALIFIED Chemist with sound knowledge and previous experience in pharmaceutical development required for laboratory work. Full particulars by letter, stating salary required, to Box No. 1931, Scott's, Arundel Street, Strand, W.C.2.

A WELL-KNOWN company conducting propaganda among the medical and allied professions has vacancies for representatives in the following areas: (1) North-East England, (2) Yorkshire, (3) Eastern Counties, (4) London, (5) Kent and Sussex. Applicants must be pharmacists and should not be over 36 years of age. Previous experience is not essential, but full details and availability for interview should be given in first letter. 130/245, C. & D. Office.

ASSISTANT Chemist wanted in the cosmetic industry. Well-known company offer a progressive post to man with knowledge of emulsions, perfumery, packaging and plant control. Age about 25. Commencing salary £350 per ann. London factory of easy access. Write, giving full details, to 131-277, C. & D. Office.

British firm holding a premier position in the industry wish to interview with a view to an appointment a working chemist with wide experience of producing creams, lotions, powders. Applicants should state age, education, experience, and previous employment, which would be treated in strictest confidence. The advertiser also has a position vacant for a fully experienced and capable analyst acquainted with the analysis of oils, fats, waxes, colours, and fine chemicals. Applicants please state age, education, and full particulars of previous experience, which will be treated in the strictest confidence. Both the above positions offer excellent prospects to men of integrity, ability and initiative. 130/256, C. & D. Office.

CLINICAL Manufacturers and Manufacturing Chemists, well known, require the services of a representative, with car if possible, to cover South Coast and Mid-Kent and Sussex. Salary, commission and expenses to right man. No beginners please, only men with connection and experience. 131/275, C. & D. Office.

CHEMIST required with pharmaceutical experience for control and development work on medicated confectionery in North of England. Good prospects for right man. Give full details of age, education and experience, 128/195, C. & D. Office.

CHECKER required for Despatch Dept. So knowledge of drugs and ethical proprieta essential. 44-hour week. Apply, giving details experience, etc., to J. M. Loveridge, Ltd., Ma facturing Chemists, 6-8, Millbrook Road, Southar ton.

DORSET, Hants and Wiltshire. Well-knc London company manufacturing leading p prietary toilet and medicinal products require first-class representative resident in the above ar Applicants should reply in own handwriting, stat age, experience, whether known to the chemists the territory concerned, and salary required, to I No. H.1504, Bensons, Kingsway Hall, Kingsw W.C.

EXPERIENCED Pricing Clerk required. 42-h week. Accuracy and initiative essential. Gc prospects. State experience and salary required application to J. M. Loveridge, Ltd., Manufact ing Chemists, 6-8, Millbrook Road, Southampton

FOUR pioneer salesmen to cover territories England required to handle Chemists' Frier line. Excellent salary, expenses and commissi Only real salesmen with car need apply. 131/2 C. & D. Office.

HIRST, BROOKE & HIRST, LTD., Sheeps Works, Leeds, 7, have a vacancy for an as sales manager. Applicants must have had experier with pharmaceutical houses. Chemist with such e perience preferred. Applicants must also have h experience of and a natural capacity for mode design and packaging. Apply, with full particula salary required, to the Managing Director.

IMPORTANT mfg. chemists require represent tives for (a) Lancs and Cheshire, (b) Middlese Bedford, Herts, Northants, (c) South Wales; co nections chemists and hairdressers desirable. Sala and commission. Also commission agent, Northe Ireland. Particulars age, experience, first lette 128/185, C. & D. Office.

LIVE representative with existing connectic among stores, chemists and hairdressers Central London, required by distributors of natior ally advertised hair preparations and toilet requisit to be sold in conjunction with fast selling sundr lines. Prospects excellent for a man with initiativ who is a "go-getter." 127/144, C. & D. Office.

MANAGING Director of manufacturing chemis with interests in proprietary field is appointir personal assistant. Pharmaceutical qualification (e equivalent) desirable but not regarded as absolutel essential. Applicants should have wide experienc of production and personnel problems in pharma ceutical industry, and a flexible and progressive out look. Ability to work as one of a team most esse tial. The position is responsible, with opportunitie for advancement. Please do not apply unless you experience covers above range of activities. In firs instance, write Managing Director, giving details o work to date and salary required. 131/282, C. & D. Office.

MEDICAL representatives with experience, resi dent in East Anglia, Midlands, Wales, Scot land, and other territories, required by medica propaganda dept. of well known manufacturin chemists in London. Apply in writing giving par ticulars of experience and remuneration required, t Box 347, Smiths', 100 Fleet Street, London, E.C.4

MEDICAL representative with pharmaceutical o science qualification required by well-known firm of manufacturing chemists. Must have experi ence in contacting medical specialists in West End of London and also able to undertake supervision of other representatives in greater London. Good salary and prospects. Full details of age, education and experience and salary required in first letter. All applications treated in confidence. 130/257, C. & D. Office.

IDLANDS (Derby, Notts, Leicester, Warwick, Staffs). This remunerative territory is offered a well-introduced representative or commission nt by manufacturing chemists supplying attrac- specialities with fine display aids. Applicants uld be thoroughly conversant with retail and olesale chemists, stores and co-ops. and possess New cars provided on delivery. Exceptional spects for conscientious worker. Fullest details, luding frequency of calls, required in first in- nce. Similar vacancies open for London (North Thames) and Eastern Counties. 130/251, C. & D. ice.

PHARMACEUTICAL CHEMIST required by rm of international repute manufacturing thical pharmaceutical products. Experience in nalytical control, research and manufacture of nodern therapeutic agents essential, to elaborate new products conforming to present-day medical rend and postulates. The appointment offers a permanent and progressive position for a fully qualified man with initiative. Write, giving full particulars regarding age, qualifications, experi- nce, etc., in strictest confidence, to 130/255, C. & D. Office.

PHARMACIST required as manager of pharma- ceutical and cosmetic manufacturing depart- nts. Practical experience desirable. Write fully rticulars, experience, salary, etc., Box 685, Sells, td., Brettenham House, Strand, W.C.2.

PHARMACIST required by London manufactur- ing chemists for supervision of pill and tablet oduction. Previous experience preferable but not ential. Write 129/220, C. & D. Office.

REPRESENTATIVE required by distributors of well known toilet preparations, with connections ongst chemists, hairdressers and stores for Corn- ll, Devon, Somerset and Dorset. Excellent pros- cts for man with initiative. 127/142, C. & D. fice.

REPRESENTATIVE required for London suburbs by distributors of well known toilet pre- rations and wholesalers of hairdressers and emists' sundries. Connections with chemists and res essential. 129/219, C. & D. Office.

REPRESENTATIVE required for Essex, Suffolk and Cambridge by distributors of well-known let preparations and wholesalers of hairdressers' d chemists' sundries. 130/246, C. & D. Office.

REPRESENTATIVES required for following territories: South Wales; Lancashire; Oxford, cks and Beds; Essex, Suffolk and Norfolk; North ndon. Large range of fancy and leather goods. rite, giving details of experience, age, and exact ea covered, to 131/268, C. & D. Office.

REPRESENTATIVES required to call on chemists, stores and hairdressers with quick-selling, easy handle line. High commission basis. 131/279, & D. Office.

SALES Manager, 30/45, required by manufac- turers of branded product selling to wholesale emists; the trade has been well established at home d abroad for many years. Applicants must be oroughly experienced in all phases of up-to-date les managing practice, with successful records of port development, and should give full details of ties covered and success attained. Salary £1,250, lus commission. 130/252, C. & D. Office.

SCOTLAND. Capsule and general manufacturing experience. Foreman required to take charge of nall manufacturing company. Very good pros- cts for reliable steady man. Write full particulars age, experience, etc., to 130/240, C. & D. Office.

TABLET Maker required by a London firm of Manufacturing Chemists. Applicants must have d experience of all kinds of Tablet making and ugar coating and must understand Rotary machines. -day week. Apply in the first instance to Box 10/466, C. & D. Office.

TABLET maker required by pharmaceutical manufacturers, Central London area. First-class wages will be paid to fully experienced man. Apply 131/296, C. & D. Office.

THE British Drug Houses, Limited, has vacancies for: (a) An inspector of finished packages. A good salary will be offered to a man with experience in the packaging of ethical medical products. Pharmaceutical qualification an advantage. (b) A pharmaceutically qualified assistant for dealing with correspondence of a technical nature; ability to write good English is essential. (c) A pharmaceutically qualified assistant in a laboratory devoted to the manufacture of galenicals. The two latter posts provide good openings for recently qualified men. Commencing salary according to age and experience, with superannuation and good prospects. Applications should be addressed to: The Staff Manager, The British Drug Houses, Ltd., Graham Street, London, N.1.

THE William R. Warner group of companies (pharmaceuticals and cosmetics) require an assistant to their managing director in Cape Town, South Africa. Salary £1,000, with good prospects. Desiderata: good personality, ability to lead and get good work from subordinates pleasantly, sound business judgment, good health, up-to-date knowledge of factory, sales and offices management, accountancy, costing, pharmaceutical chemistry, advertising press, display, demonstrations, ethical promotion, buying supplies, including drugs, packing, printing; age about 30, unmarried preferred. Applicants should send qualifications under above heads, confidentially, to Managing Director, W. R. Warner Co., Ltd., Power Road, London, W.4.

TRAVELLERS required, good connections in chemists, ladies' hairdressers, stores, to carry additional quick-selling, easy to carry, well-known line. Commission basis only. Any territory in England, Wales, Scotland, commission being 12 per cent. Please forward credentials. 130/263, C. & D. Office.

WANTED, Manager for factory in London area, engaged in manufacture of surgical dressings and plasters. Excellent prospects for right man. Write full particulars of past experience and salary required to 131/278, C. & D. Office.

WELL introduced Representatives required to call upon chemist wholesalers and retailers in several exclusive territories. High-class medicinal product with guaranteed supplies; remuneration on generous commission basis. Reply: The Finchley Manufacturing Company, 882, High Road, N.12.

WELL-KNOWN firm of distributors of nationally advertised hair preparations and wholesalers of first-class fancy and sundry lines, require a keen energetic young man with connections amongst chemists, hairdressers and stores as representative for Gloucester, Wiltshire, Berkshire and Oxford. 127/141, C. & D. Office.

WHOLESALERS and Representatives wanted for new product selling to chemists, grocers, stores, etc. Excellent reception so far by chain stores and department stores. Reasonable supplies. Line will be advertised. Please apply 130/244, C. & D. Office.

WORCESTER, Hereford and Shropshire. Representative required for area now vacant, by distributors of nationally advertised toilet requisites, and wholesaler of chemists' and hairdressers' sundries. Commission basis. 127/143, C. & D. Office.

YOUNG woman assistant for chemists' laboratory. Wet and dry drugs, assemble and check orders. Hours 8.30 a.m. to 5.30 p.m. Saturdays 1 p.m. London, E.C.1. Apply 128/180, C. & D. Office.

CLERICAL

EFFICIENT shorthand-typist wanted by enterprising small firm. Interesting work, good prospects and wages. 128/188, C. & D. Office.

WHOLESALE (OVERSEAS)

APPLICATION is invited from a Pharmacist for service in East Africa. A young qualified single man is required and engagement in the first instance will be for a term of four years, with return passage paid. Salary during the four years of the engagement will be at the rate of £480, £510, £540, £540 per annum respectively, plus £30 per annum cost of living allowance. The successful candidate will be required to pass the company's medical examination. Apply in writing, giving age, experience, etc., to 131/283, C. & D. Office.

QUALIFIED Chemist, single, required by wholesale chemists in South Africa. Two-year contract. Salary £500/£600 per annum. Passage paid to South Africa. Any active service disabilities no disadvantage provided health is good. 130/259, C. & D. Office.

SITUATIONS WANTED

2/6 for 18 words or less, 1d. for every additional word.

RETAIL (HOME)

DISPENSER-BOOKKEEPER (Apothecaries' Hall certificate) seeks post, part time or full time, good experience. Apply Miss A. E. Tye, 109, Crescent Road, Plumstead, S.E.18.

PHARMACIST (34), married, energetic, fully experienced, accustomed to heavy turnover and dispensing, requires managership in London. Full control preferred, commensurate salary. 131/266. C. & D. Office.

WHOLESALE

A YOUNG man of 35 years with technical training and 18 years' experience of the chemical and printing industries, desires a change. Experience as foreman of stock and dispatch depts., also control of chemical processes. Write 131/292, C. & D. Office.

CAPABLE Druggist and tablet maker, 25 years' experience of wholesale and manufacturing, also in responsible positions of buying, dispatch and store departments desires situation with wholesale and manufacturing chemists. 117/695, C. & D. Office.

ENERGETIC manager (42) desires change. 20 years' experience in warehouse and factory organisation. Packaging—pharmaceuticals, medical specialities, cosmetics, etc. Stock and staff control. Capable organiser, 127/138, C. & D. Office.

FIRST-CLASS Sales Manager requires executive position, either as sales or general manager; good organiser and administrator, keen salesman with excellent sales record, widely travelled on continent, linguist, highest credentials. 130-253, C. & D. Office.

PROFESSIONAL representation sought by young man; 9 years' experience as trade and professional representative. Excellent connections with hospitals, medical, dental and pharmaceutical spheres in Lancashire and Yorkshire. Public school and university education. Salary of secondary importance, with house of repute. 130/260, C. & D. Office.

PUBLICITY. Lady executive, many years experience, wishes to undertake spare-time work or act in consulting capacity. 128/192, C. & D. Office.

QUALIFIED Pharmaceutical Chemist (H.P.S.I.), age, 31, single, thorough knowledge of retail trade, employed at present in managerial capacity, wishes to represent reputable manufacturing house, in London or overseas; alternatively would consider situation in retail; excellent references supplied on request. 131/270, C. & D. Office.

REPRESENTATIVE with excellent connec London wholesale and retail chemists, seeks position with good house; long experienc branded lines; good, genuine representation assu own car. 131/267, C. & D. Office.

REPRESENTATIVE calling on chemists and h dressers in areas in Hants and Sussex requ high-class sidelines. 130/249, C. & D. Office.

SALES Manager, fully experienced, with kn ledge acquired during 25 years' successful r keting and selling of proprietary medicines, de frices and perfumery desires change. Only fi awake to present opportunities write. 130/233, C D. Office.

SALES Manager, qualified, very successful rec seeks change. Experience includes foods, c cals and toilets. Capable full control; very effic administrative assistant to managing director. Pre earning £1,250. 128/183, C. & D. Office.

WORKS manager or assistant (unqualifi Advertiser, with extensive experience reputation for integrity, reliability and initiat seeks position with progressive firm, preferably scope for mass production methods. (Sou 129/205, C. & D. Office.

YORKSHIRE representative of well-known gr now considering acting on own initiative, w be pleased to consider representation of firm ma facturing or marketing high-quality goods suit for the pharmaceutical trade. Known personall all wholesale and retail chemists and dept. st throughout the entire country. Commission b only. Own car. Excellent references availa 131/274, C. & D. Office.

CLERICAL

ABLE and efficient qualified accountant with 20 years' experience requires post in ma facturing chemist or distributive trades. Accustor to control own apartment and staff. Expert wages systems, P.A.Y.E., purchase tax and c pany secretarial work. Exceptional organiser. engaged and desires position of interest carry minimum salary of £600 p.a. 128/190, C. & Office.

APPOINTMENTS

ASSISTANT PHARMACIST required by MID DLESEX COUNTY COUNCIL at CENTRA MIDDLESEX COUNTY HOSPITAL, Par Royal, N.W.10. Candidates must be Registere Pharmacists. Salary as recommended by Join Negotiating Committee on Salaries and Wage (Hospital Staffs); minimum commencing salar £320 p.a. inclusive; by annual increments up t £400 p.a. Previous experience as assistan pharmacist may be taken into consideration i determining commencing salary. Whole-time established and pensionable, subject to medica examination. Recently qualified pharmacist considered. Application stating age, qualifi cations, experience, enclosing copies of up t three recent testimonials to Medical Director o Hospital. Application forms not provided Closing date 2nd November, 1946 (A.550).

BIRMINGHAM AND MIDLAND EYE HOSPITAL, CHURCH STREET, BIRMINGHAM 3

CHIEF PHARMACIST, M.P.S. qualification male or female, required at an early date by thi important provincial hospital. One assistant. A knowledge of institutional buying and routine essential. Salary on the Joint Negotiating Committee's scale. Apply in writing on or befor 5th November, 1946, to the House Governor.

AIR MINISTRY

A Superintending Pharmacist is required at the Royal Air Force Medical Equipment Depot, Chessington. Men only are eligible and candidates, who must be British subjects, should be under 50 years of age on 1st, October, 1946. The most suitable applicants will be interviewed by a Selection Board in London. The appointment is a full-time post. The successful applicant will be required to pass a medical examination and will be eligible for establishment in the Permanent Civil Service, subject to a probationary period of 12 months. Graduates in Pharmacy will be preferred: the minimum qualifications are Membership of the Pharmaceutical Society and considerable commercial experience of pharmaceutical work. The salary is £456 by annual increments of £25 to £625 per annum plus a consolidation addition of £90 per annum. Application by letter only, stating date of birth, present employment, full details of qualifications and experience, should be sent to the Under-Secretary of State, Air Ministry, S.2.(q.), Cornwall House, Waterloo Bridge Road, London, S.E.1, not later than 14th November, 1946.

KENT COUNTY COUNCIL
ASSISTANT PHARMACIST

Applications are invited for the following appointment at the County Pharmacy, County Hall, Maidstone. Assistant Pharmacist (M.P.S. or Ph.C.) (Male). Hospital experience preferred. Salary £320 a year by four increments of £15 and one of £20 to £400 a year. Superannuation. Medical examination necessary. Applications, stating age, qualifications, experience, and the names and addresses of two responsible persons to whom reference may be made as to professional ability, to be sent to the County Medical Officer, County Hall, Maidstone, as soon as possible.

W. L. PLATTS,
Clerk of the County Council.

County Hall, Maidstone.
10th October, 1946.

SURREY COUNTY COUNCIL, BROOKWOOD MENTAL HOSPITAL, KNAPHILL, WOKING, SURREY

Applications are invited for the post of Assistant Pharmacist at the above Hospital. Candidates must hold the M.P.S. qualification. The salary is £320 rising by four annual increments of £15, and one of £20 to the maximum of £400 per annum. The appointment, which is terminable by one calendar month's notice on either side, is subject to the provisions of the Asylum Officers' Superannuation Act, 1909, and to the County Council's Staffing Regulations, and the successful candidate will be required to undergo a medical examination. Applications, stating age and previous experience, together with copies of three recent testimonials, to be sent to the Physician-Superintendent, Brookwood Hospital, Knaphill, Woking, Surrey, as soon as possible.

BUSINESS OPPORTUNITIES

1/6 for 36 words or less, 3d. for every additional word

FIRST-CLASS Christmas lines required by wholesalers of chemists and hairdressers sundries and the distributors of nationally advertised toilet preparations, having an efficient sales organisation covering the entire British Isles. Immediate decisions given and prompt payment made for tiptop lines, to be sold in conjunction with their other products.—128/194, C. & D. Office.

INDUSTRIAL and pharmaceutical chemist now available as consultant. All matters appertaining to works management, factory layout, problems relating to production and formulation of pharmaceuticals and cosmetics. Compilation of technical literature. All correspondence in strict confidence. 130/258, C. & D. Office.

MANUFACTURER with two large factories in Slough and London Bridge would like to meet somebody regarding packing and working arrangements with plenty space. 131/290, C. & D. Office.

QUALIFIED medical man, experienced journalist, desires opportunities of advertisement copywriting, for ethical or proprietary products. 131/291, C. & D. Office.

BUSINESSES WANTED

7/6 for 40 words or less, 2d. for every additional word.

WE wish to acquire established manufacturing toilet business situated in North-west England. Must have large quotas. Good offer given for entire or part holding. The advertisers are established manufacturing tablet house. Confidential to Cosslett & Co., Chartered Accountants, Brazennose Street, Manchester.

BUSINESSES FOR DISPOSAL

7/6 for 40 words or less, 2d. for every additional word.

COSMETIC, toilet, beauty aid, etc. business, situate main shopping centre Tottenham. Rent £91 p.a. ex. Long lease. Est. 2 years. Net profit last year £862. Reason for selling—ill-health. £1,700 s.a.v. Apply A. K. M. Baynton, F.A.I., 2 Green Lanes, N.13. BOWes Park 1000.

DRUG and toilet store for sale, in busy district, S.W. London. Established 14 years. Price £1,500 plus stock at valuation. 131/288, C. & D. Office.

FOR SALE. Chemist's business, with living accommodation, East London, £1,000 all at. Reason for sale, retirement. 131/287, C. & D. Office.

GOOD class drug store, established 30 years, well stocked. Good allocations. Splendid living accommodation, main road, bus stop. Splendid opening for chemist. Death cause of disposal. £3,750, including modern well built property. 131/276, C. & D. Office.

MIDLAND city, owner retiring, suburban business main road, turnover over £50 weekly. Flat above let off not at present available. Long lease, rent 45s. plus rates, let off 12s. 6d. weekly. Price £1,500 including stock (estimated at £600) and fittings. 129/212, C. & D. Office.

AGENCIES

12/6 for 36 words or less, 3d. for every additional word.

ADVERTISER going back to Hungary within the next few weeks, interested to represent first-class manufacturing chemists or wholesale export firms. Write Dr. G. Korner, 164 Sheen Court, Richmond, or 'Phone Prospect 5993.

FEEDING bottle teats. London manufacturers of well known branded products and of eye dropper and soother teats, wishes negotiate agency arrangement for provinces—London and Scotland excluded. Terms—commission or commission and expenses. Prospective agent must be already be contacting appropriate wholesale trade with suitably allied products. Box 487, Gordon House, Farringdon, Street, E.C.4.

FIRM with retail connection in main road, thickly populated area N.W. coast, seeks further agencies. Household goods, medicinal, gardening requisites, services, etc. Write 130/250, C. & D. Office.

LARGE Canadian Sales Agency, 14 distributing warehouses, coast-to-coast sales coverage, wishes to represent manufacturers of pharmaceutical specialities, household medicinal products, toilet sundries, etc. Write Laurentian Agencies, 429 St. Jean Baptist Street, Montreal, P.Q., Canada.

MANUFACTURER'S agent going to New Zealand in 1947 requires agencies suitable wholesale drapers, wholesale chemists, wholesale grocers and warehousemen. 131/280, C. & D. Office.

OWNER of small high-class toilet manufacturing business would like additional agencies for 2 or 3 toilet lines on commission basis. Excellent connections with West End stores, and London chemists, also South Coast. 131/289, C. & D. Office.

PHARMACIST, age 40, keen and resourceful, with previous travelling experience desires to contact manufacturers with a view to agency in Scotland for chemists' sundries and for toilet preparations. Limited capital available. References. Reply in confidence, 131/281, C. & D. Office.

PRECISION balances. W. Rasquin, 113 Avenue Besme, Fores, Brussels, actual manufacturer seeks representation for the sale of balances to laboratories and the medical profession.

SMALL company with a number of retail pharmacies and a sundries line which has been introduced successfully into the leading London stores and pharmacies, would like to take up one or two high class lines. Representative with car available. 131/293, C. & D. Office.

WELL recommended export agent in London, calling on shippers, with extensive clientele, live contacts, desires to represent manufacturers as their City export agent. Write Box 8776, Frost-Smith Advg., 64 Finsbury Pavement, London, E.C.2.

WHOLESALE chemist sundries house established over 30 years covering all parts of Scotland would be interested in agency for any line which could be sold to chemists. 122/870, C. & D. Office.

WANTED

7/6 for 36 words or less, 2d. for every additional word.

BOTTLES wanted. ½ and 1 oz. essence bottles and 26-oz. cordial or wine type. Please quote for small or large quantities to: A. E. Bevan, Ltd., 20A Hall Street, Southport, Lancs.

CELLOPHANE wrapping machine required in good condition, able to handle packets, size 5½ in. x 3¼ in. x 1 in. Reply 131/272, C. & D. Office.

EDIBLE Sheet and Powdered Gelatin required in large quantities. 965/970, C. & D. Office.

FACE powder mixer, preferably Gardners, required. Please send details to 129/221, C. & D. Offices.

GLYCERINE wanted, small or bulk quantities. State quantity, quality and price. Cash at once. Gordon-Moore, 31 Sinclair Road, London, W.14. Telephone Shepherds Bush 1131-2. Telegrams: Dazzling, London.

MALT extract wanted by manufacturers for own use. Quantity and price to 128/165, C. & D. Office.

METAL godets (empty) for compacts wanted. Diameter 1.7/16ths. Manufacturers please send samples and prices per gross for 1/200 gross lots. M. Beetham & Son, Imperial Lane, Cheltenham.

OZOKERITE Wax. Supplies wanted in any quantity. Offers to 131/285, C. & D. Office.

Q.P hand and power emulsifiers in any condition. Please state price and condition. 125/982, C. & D. Office

REQUIRED by ex-service man opening new business. Dispensing equipment, including dispensing and counter sales, pestle and mortar, etc. Particulars to 130/262, C. & D. Office.

ROLL-FILM adaptor, to take 2¼ x 3¼ roll-film fit on to Goerz Tenax quarter-plate came also stereoscopic lantern plates 45 x 107 mm. wanted and cassettes for 35 mm. film. Offers to 130/2 C. & D. Office.

SANITARY towels of all kinds urgently need by wholesale chemists. Good distributi offered for any well manufactured product. Geo Higgins & Co., Ltd., 77/9, Westbridge Ro S.W.11.

SODA crystals (pea size) wanted, 10 or 20 ton lo 127/140, C. & D. Office.

STEARIC Acid Triple Pressed required in lar quantities. 965/969, C. & D. Office.

WANTED. White mineral oil and glyceri Offers to 131/286, C. & D. Office.

WANTED, 56 lb. tins Glycerin B.P. Adverti willing to exchange for 8 doz. packets of 10 saccharins. Goods to be carriage paid to destinati 118/752, C. & D. Office.

WHITING wanted, 10 or 20 ton lots. 127/1. C. & D. Office.

8 OZ. Plain Medicals, 8-oz. ribbed Ovals, 2 2½- Panels; divisioned Cartons to hold any these. Samples and prices to S. Tatlow & Co., Lt Eckington, Sheffield.

26 OZ. and 13-oz. Wine or Champagne Bott required. 625/524, C. & D. Office.

MISCELLANEOUS SALES

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ASPIRIN granules B.P. 1 ton for sale. St price offered for entire consignment, 127/155, C. & D. Office.

ARLEE, LTD., Green Roof, Ashtead, Surre can offer rubber wads to fit caps for sm perfume bottles. Ashtead 2566.

BISMUTH carbonate. 1 cwt. for sale. Off to 131/269, C. & D. Office.

FOR Sale. Limited quantity of 1½ oz., 2 oz. a 5 oz. tins. Apply: S. T. Chemicals, Ltd., 2 Bishopsgate, E.C.2. BIS. 1927, 627.

TWO pairs Avery's factory or laboratory scal Enclosed beam type to weigh 2 lb. Accura and in new condition. Saunders, 50 Highgate Hi Street, London, N.6. Telephone: MOU 2201.

2 x 28 lbs. ORIGINAL containers Bergamot; 2 28-lbs. Palmarosa; 50 lbs. Sweet Orange. B offers. 131/273, C. & D. Office.

50 LBS. stearic acid, best quality, 1 carboy, 5-ga (steel) empty from industrial spirits, 8 c sweet orange oil (Jamaica) 8 oz. lemon oil (Pal tine) £10 the lot. "Chemist," 52 Culverdon Roa London, S.W.12.

EXPORT TRADE

AGENCIES for medical products for Italy Venezia Giulia required by established age with vast experience in this line and Italian market Replies to: Rag. G. Rino Zaccone, 2 Via Cologn Trieste

KOOROS BROTHERS, Teheran, Iran, are inte ested in laboratory products, instrument colorants and drugs. Will manufacturers kindly fo ward their catalogues and prices.

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PARTNER wanted to invest £1,000 in an estal lished manufacturers. Home trade and expor perfumery, etc. Good quota. 131/295, C. & I Office.

QUALIFIED chemist requires active partnersh in wholesale, manufacturing or packing busines Will invest £2,000. 129/197, C. & D. Office.

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